

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
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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Species/Strain: Mouse/B6C3F1

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SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF NTP 90 DIET STUDY

MALE MOUSE

Organ

Heart: Coron Artery

Liver

Lymph Node, Mesenteric

Pancreas: Acinus

Thyroid Gland: Follicle

FEMALE MOUSE

Organ

Lung: Alveolar Epith

Lymph Node, Mandibular

Pancreas: Acinus

Pituitary Gland: Pars Distalis

Thyroid Gland: Follicular Cel

Uterus

Morphology

Inflammation

Clear Cell Focus

Erythrophagocytosis

Vacuolization Cytoplasmic

Cyst

Morphology

Hyperplasia

Erythrophagocytosis

Inflammation

Hyperplasia

Hyperplasia

Cyst

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

DOSE	7M	9M	MALE
Adrenal Cortex			
Hypertrophy			
LESION RATES			
OVERALL(a)	22/45 (49%)	25/46 (54%)	
POLY-3 RATE (b)	22/43.69	25/45.39	
POLY-3 PERCENT (g)	50.4%	55.1%	
TERMINAL (d)	20/40 (50%)	24/43 (56%)	
FIRST INCIDENCE	328	577	
STATISTICAL TESTS			
POLY 3	P=0.408	P=0.408	
POLY 1.5	P=0.395	P=0.395	
POLY 6	P=0.424	P=0.424	
COCH-ARM / FISHERS	P=0.378	P=0.378	
MAX-ISO-POLY-3	P=0.330	P=0.330	
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

Experiment Number: 92003-02
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

DOSE	7M	9M	MALE
Adrenal Cortex: Capsule Hyperplasia			
LESION RATES			
OVERALL(a)	40/45 (89%)	38/46 (83%)	
POLY-3 RATE (b)	40/44.29	38/45.94	
POLY-3 PERCENT (g)	90.3%	82.7%	
TERMINAL (d)	37/40 (92%)	36/43 (84%)	
FIRST INCIDENCE	328	489	
STATISTICAL TESTS			
POLY 3	P=0.225N	P=0.225N	
POLY 1.5	P=0.252N	P=0.252N	
POLY 6	P=0.191N	P=0.191N	
COCH-ARM / FISHERS	P=0.289N	P=0.290N	
MAX-ISO-POLY-3	P=0.147N	P=0.147N	
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

Experiment Number: 92003-02
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

DOSE	7M	9M	MALE
Heart			
Cardiomyopathy			
LESION RATES			
OVERALL(a)	5/57 (9%)	2/64 (3%)	
POLY-3 RATE (b)	5/54.41	2/62.69	
POLY-3 PERCENT (g)	9.2%	3.2%	
TERMINAL (d)	4/52 (8%)	2/58 (3%)	
FIRST INCIDENCE	623	637(T)	
STATISTICAL TESTS			
POLY 3	P=0.165N	P=0.165N	
POLY 1.5	P=0.167N	P=0.167N	
POLY 6	P=0.166N	P=0.166N	
COCH-ARM / FISHERS	P=0.174N	P=0.175N	
MAX-ISO-POLY-3	P=0.096N	P=0.096N	
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

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

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

DOSE	7M	9M	MALE
Heart: Coron Artery Inflammation			
LESION RATES			
OVERALL(a)	0/57 (0%)	4/64 (6%)	
POLY-3 RATE (b)	0/54.35	4/62.69	
POLY-3 PERCENT (g)	0%	6.4%	
TERMINAL (d)	0/52 (0%)	4/58 (7%)	
FIRST INCIDENCE	---	637(T)	
STATISTICAL TESTS			
POLY 3	P=0.082	P=0.082	
POLY 1.5	P=0.081	P=0.081	
POLY 6	P=0.082	P=0.082	
COCH-ARM / FISHERS	P=0.079	P=0.075	
MAX-ISO-POLY-3	P=0.034*	P=0.034*	
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

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First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

DOSE	MALE	
	7M	9M
Islets, Pancreatic Hyperplasia		
LESION RATES		
OVERALL(a)	49/51 (96%)	53/60 (88%)
POLY-3 RATE (b)	49/51.00	53/59.49
POLY-3 PERCENT (g)	96.1%	89.1%
TERMINAL (d)	35/37 (95%)	43/48 (90%)
FIRST INCIDENCE	328	489
STATISTICAL TESTS		
POLY 3	P=0.150N	P=0.150N
POLY 1.5	P=0.139N	P=0.139N
POLY 6	P=0.170N	P=0.170N
COCH-ARM / FISHERS	P=0.127N	P=0.126N
MAX-ISO-POLY-3	P=0.089N	P=0.089N
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

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Test Compound: NTP 90 diet study
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Date Report Requested: 10/21/2014
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First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

	MALE	
DOSE	7M	9M
<hr/>		
Kidney		
Metaplasia Osseous		
<hr/>		
LESION RATES		
OVERALL(a)	1/53 (2%)	0/61 (0%)
POLY-3 RATE (b)	1/51.58	0/60.07
POLY-3 PERCENT (g)	1.9%	0%
TERMINAL (d)	1/50 (2%)	0/58 (0%)
FIRST INCIDENCE	637(T)	---
<hr/>		
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

	MALE	
DOSE	7M	9M
Kidney		
Nephropathy		
LESION RATES		
OVERALL(a)	22/53 (42%)	32/61 (52%)
POLY-3 RATE (b)	22/51.58	32/60.20
POLY-3 PERCENT (g)	42.7%	53.2%
TERMINAL (d)	22/50 (44%)	31/58 (53%)
FIRST INCIDENCE	637(T)	609
STATISTICAL TESTS		
POLY 3	P=0.179	P=0.179
POLY 1.5	P=0.176	P=0.176
POLY 6	P=0.180	P=0.180
COCH-ARM / FISHERS	P=0.164	P=0.164
MAX-ISO-POLY-3	P=0.145	P=0.145
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

DOSE	MALE	
	7M	9M
Kidney: Cortex		
Mineralization		
LESION RATES		
OVERALL(a)	2/53 (4%)	0/61 (0%)
POLY-3 RATE (b)	2/51.58	0/60.07
POLY-3 PERCENT (g)	3.9%	0%
TERMINAL (d)	2/50 (4%)	0/58 (0%)
FIRST INCIDENCE	637(T)	---
STATISTICAL TESTS		
POLY 3	P=0.205N	P=0.205N
POLY 1.5	P=0.205N	P=0.205N
POLY 6	P=0.205N	P=0.205N
COCH-ARM / FISHERS	P=0.207N	P=0.214N
MAX-ISO-POLY-3	P=0.069N	P=0.069N
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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Species/Strain: Mouse/B6C3F1

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

	MALE	
DOSE	7M	9M
Kidney: Pelvis		
Hydronephrosis		
LESION RATES		
OVERALL(a)	2/53 (4%)	0/61 (0%)
POLY-3 RATE (b)	2/51.58	0/60.07
POLY-3 PERCENT (g)	3.9%	0%
TERMINAL (d)	2/50 (4%)	0/58 (0%)
FIRST INCIDENCE	637(T)	---
STATISTICAL TESTS		
POLY 3	P=0.205N	P=0.205N
POLY 1.5	P=0.205N	P=0.205N
POLY 6	P=0.205N	P=0.205N
COCH-ARM / FISHERS	P=0.207N	P=0.214N
MAX-ISO-POLY-3	P=0.069N	P=0.069N
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

	MALE	
DOSE	7M	9M
<hr/>		
Kidney: Renal Tubule Cyst		
<hr/>		
LESION RATES		
OVERALL(a)	3/53 (6%)	2/61 (3%)
POLY-3 RATE (b)	3/51.58	2/60.07
POLY-3 PERCENT (g)	5.8%	3.3%
TERMINAL (d)	3/50 (6%)	2/58 (3%)
FIRST INCIDENCE	637(T)	637(T)
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STATISTICAL TESTS		
POLY 3	P=0.431N	P=0.431N
POLY 1.5	P=0.432N	P=0.432N
POLY 6	P=0.432N	P=0.432N
COCH-ARM / FISHERS	P=0.436N	P=0.433N
MAX-ISO-POLY-3	P=0.273N	P=0.273N
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

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Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

DOSE	MALE	
	7M	9M
Kidney: Renal Tubule Dilatation		
LESION RATES		
OVERALL(a)	16/53 (30%)	14/61 (23%)
POLY-3 RATE (b)	16/51.58	14/60.07
POLY-3 PERCENT (g)	31%	23.3%
TERMINAL (d)	16/50 (32%)	14/58 (24%)
FIRST INCIDENCE	637(T)	637(T)
STATISTICAL TESTS		
POLY 3	P=0.242N	P=0.242N
POLY 1.5	P=0.245N	P=0.245N
POLY 6	P=0.243N	P=0.243N
COCH-ARM / FISHERS	P=0.254N	P=0.254N
MAX-ISO-POLY-3	P=0.191N	P=0.191N
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

Experiment Number: 92003-02
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Species/Strain: Mouse/B6C3F1

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS

DOSE	7M	9M	MALE
Liver			
Angiectasis			
LESION RATES			
OVERALL(a)	2/57 (4%)	0/62 (0%)	
POLY-3 RATE (b)	2/53.42	0/61.00	
POLY-3 PERCENT (g)	3.7%	0%	
TERMINAL (d)	2/50 (4%)	0/58 (0%)	
FIRST INCIDENCE	637(T)	---	
STATISTICAL TESTS			
POLY 3	P=0.209N	P=0.209N	
POLY 1.5	P=0.212N	P=0.212N	
POLY 6	P=0.207N	P=0.207N	
COCH-ARM / FISHERS	P=0.220N	P=0.227N	
MAX-ISO-POLY-3	P=0.072N	P=0.072N	
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

	MALE	
DOSE	7M	9M
<hr/>		
Liver		
Clear Cell Focus		
<hr/>		
LESION RATES		
OVERALL(a)	8/57 (14%)	24/62 (39%)
POLY-3 RATE (b)	8/53.42	24/61.00
POLY-3 PERCENT (g)	15%	39.3%
TERMINAL (d)	8/50 (16%)	24/58 (41%)
FIRST INCIDENCE	637(T)	637(T)
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STATISTICAL TESTS		
POLY 3	P=0.003**	P=0.003**
POLY 1.5	P=0.002**	P=0.002**
POLY 6	P=0.003**	P=0.003**
COCH-ARM / FISHERS	P=0.002**	P=0.002**
MAX-ISO-POLY-3	P=0.002**	P=0.002**
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

Experiment Number: 92003-02
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Species/Strain: Mouse/B6C3F1

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

	MALE	
DOSE	7M	9M
<hr/>		
Liver		
Eosinophilic Focus		
<hr/>		
LESION RATES		
OVERALL(a)	13/57 (23%)	10/62 (16%)
POLY-3 RATE (b)	13/53.42	10/61.00
POLY-3 PERCENT (g)	24.3%	16.4%
TERMINAL (d)	13/50 (26%)	10/58 (17%)
FIRST INCIDENCE	637(T)	637(T)
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STATISTICAL TESTS		
POLY 3	P=0.206N	P=0.206N
POLY 1.5	P=0.218N	P=0.218N
POLY 6	P=0.196N	P=0.196N
COCH-ARM / FISHERS	P=0.245N	P=0.245N
MAX-ISO-POLY-3	P=0.157N	P=0.157N
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

	MALE	
DOSE	7M	9M
Liver		
Inflammation Focal		
LESION RATES		
OVERALL(a)	0/57 (0%)	0/62 (0%)
POLY-3 RATE (b)	0/53.42	0/61.00
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/50 (0%)	0/58 (0%)
FIRST INCIDENCE	---	---
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

	MALE	
DOSE	7M	9M
<hr/>		
Liver		
Mixed Cell Focus		
<hr/>		
LESION RATES		
OVERALL(a)	3/57 (5%)	3/62 (5%)
POLY-3 RATE (b)	3/53.42	3/61.00
POLY-3 PERCENT (g)	5.6%	4.9%
TERMINAL (d)	3/50 (6%)	3/58 (5%)
FIRST INCIDENCE	637(T)	637(T)
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STATISTICAL TESTS		
POLY 3	P=0.599N	P=0.599N
POLY 1.5	P=0.606N	P=0.606N
POLY 6	P=0.593N	P=0.593N
COCH-ARM / FISHERS	P=0.623N	P=0.619N
MAX-ISO-POLY-3	P=0.437N	P=0.437N
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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Species/Strain: Mouse/B6C3F1

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First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

DOSE	7M	9M	MALE
<hr/>			
Liver: Hepatocyte			
Necrosis			
<hr/>			
LESION RATES			
OVERALL(a)	4/57 (7%)	2/62 (3%)	
POLY-3 RATE (b)	4/54.28	2/61.00	
POLY-3 PERCENT (g)	7.4%	3.3%	
TERMINAL (d)	3/50 (6%)	2/58 (3%)	
FIRST INCIDENCE	328	637(T)	
<hr/>			
STATISTICAL TESTS			
POLY 3	P=0.286N	P=0.286N	
POLY 1.5	P=0.291N	P=0.291N	
POLY 6	P=0.282N	P=0.282N	
COCH-ARM / FISHERS	P=0.300N	P=0.301N	
MAX-ISO-POLY-3	P=0.172N	P=0.172N	
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:04:36

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

	MALE	
DOSE	7M	9M
Lung		
Pigmentation		
LESION RATES		
OVERALL(a)	0/58 (0%)	0/63 (0%)
POLY-3 RATE (b)	0/54.85	0/61.90
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/52 (0%)	0/58 (0%)
FIRST INCIDENCE	---	---
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:04:36

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

	MALE	
DOSE	7M	9M
<hr/>		
Lung: Alveolar Epith Hyperplasia		
<hr/>		
LESION RATES		
OVERALL(a)	1/58 (2%)	0/63 (0%)
POLY-3 RATE (b)	1/54.85	0/61.90
POLY-3 PERCENT (g)	1.8%	0%
TERMINAL (d)	1/52 (2%)	0/58 (0%)
FIRST INCIDENCE	637(T)	---
<hr/>		
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

DOSE	7M	9M	MALE
Lung: Alveolus			
Infiltration Cellular Histiocyte			
LESION RATES			
OVERALL(a)	3/58 (5%)	4/63 (6%)	
POLY-3 RATE (b)	3/55.76	4/62.00	
POLY-3 PERCENT (g)	5.4%	6.5%	
TERMINAL (d)	2/52 (4%)	3/58 (5%)	
FIRST INCIDENCE	287	614	
STATISTICAL TESTS			
POLY 3	P=0.557	P=0.557	
POLY 1.5	P=0.553	P=0.553	
POLY 6	P=0.560	P=0.560	
COCH-ARM / FISHERS	P=0.545	P=0.546	
MAX-ISO-POLY-3	P=0.406	P=0.406	
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

DOSE	7M	9M	MALE
Lymph Node, Mandibular Erythrophagocytosis			
LESION RATES			
OVERALL(a)	0/44 (0%)	0/56 (0%)	
POLY-3 RATE (b)	0/41.28	0/53.38	
POLY-3 PERCENT (g)	0%	0%	
TERMINAL (d)	0/36 (0%)	0/47 (0%)	
FIRST INCIDENCE	---	---	
STATISTICAL TESTS			
POLY 3	(n)	(n)	
POLY 1.5	(n)	(n)	
POLY 6	(n)	(n)	
COCH-ARM / FISHERS	(n)	(n)	
MAX-ISO-POLY-3	(n)	(n)	
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS

DOSE	7M	9M	MALE
Lymph Node, Mandibular Infiltration Cellular Histiocyte			
LESION RATES			
OVERALL(a)	2/44 (5%)	0/56 (0%)	
POLY-3 RATE (b)	2/41.28	0/53.38	
POLY-3 PERCENT (g)	4.8%	0%	
TERMINAL (d)	2/36 (6%)	0/47 (0%)	
FIRST INCIDENCE	734(T)	---	
STATISTICAL TESTS			
POLY 3	P=0.182N	P=0.182N	
POLY 1.5	P=0.183N	P=0.183N	
POLY 6	P=0.182N	P=0.182N	
COCH-ARM / FISHERS	P=0.186N	P=0.191N	
MAX-ISO-POLY-3	P=0.063N	P=0.063N	
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

DOSE	7M	9M	MALE
Lymph Node, Mandibular Pigmentation			
LESION RATES			
OVERALL(a)	2/44 (5%)	0/56 (0%)	
POLY-3 RATE (b)	2/41.28	0/53.38	
POLY-3 PERCENT (g)	4.8%	0%	
TERMINAL (d)	2/36 (6%)	0/47 (0%)	
FIRST INCIDENCE	734(T)	---	
STATISTICAL TESTS			
POLY 3	P=0.182N	P=0.182N	
POLY 1.5	P=0.183N	P=0.183N	
POLY 6	P=0.182N	P=0.182N	
COCH-ARM / FISHERS	P=0.186N	P=0.191N	
MAX-ISO-POLY-3	P=0.063N	P=0.063N	
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS

DOSE	7M	9M	MALE
Lymph Node, Mesenteric			
Erythrophagocytosis			
LESION RATES			
OVERALL(a)	18/45 (40%)	11/53 (21%)	
POLY-3 RATE (b)	18/42.44	11/51.16	
POLY-3 PERCENT (g)	42.4%	21.5%	
TERMINAL (d)	14/34 (41%)	10/45 (22%)	
FIRST INCIDENCE	650	721	
STATISTICAL TESTS			
POLY 3	P=0.023N*	P=0.023N*	
POLY 1.5	P=0.025N*	P=0.025N*	
POLY 6	P=0.022N*	P=0.022N*	
COCH-ARM / FISHERS	P=0.032N*	P=0.032N*	
MAX-ISO-POLY-3	P=0.018N*	P=0.018N*	
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

DOSE	7M	9M	MALE
Lymph Node, Mesenteric Infiltration Cellular			
LESION RATES			
OVERALL(a)	3/45 (7%)	1/53 (2%)	
POLY-3 RATE (b)	3/41.58	1/51.10	
POLY-3 PERCENT (g)	7.2%	2%	
TERMINAL (d)	2/34 (6%)	1/45 (2%)	
FIRST INCIDENCE	707	734(T)	
STATISTICAL TESTS			
POLY 3	P=0.235N	P=0.235N	
POLY 1.5	P=0.240N	P=0.240N	
POLY 6	P=0.229N	P=0.229N	
COCH-ARM / FISHERS	P=0.248N	P=0.249N	
MAX-ISO-POLY-3	P=0.123N	P=0.123N	
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

DOSE	7M	9M
MALE		
Lymph Node, Mesenteric Infiltration Cellular Histiocyte		
LESION RATES		
OVERALL(a)	32/45 (71%)	32/53 (60%)
POLY-3 RATE (b)	32/42.70	32/52.03
POLY-3 PERCENT (g)	74.9%	61.5%
TERMINAL (d)	27/34 (79%)	28/45 (62%)
FIRST INCIDENCE	623	577
STATISTICAL TESTS		
POLY 3	P=0.118N	P=0.118N
POLY 1.5	P=0.138N	P=0.138N
POLY 6	P=0.099N	P=0.099N
COCH-ARM / FISHERS	P=0.184N	P=0.184N
MAX-ISO-POLY-3	P=0.092N	P=0.092N
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

DOSE	7M	9M	MALE
Mesentery: Fat			
Necrosis			
LESION RATES			
OVERALL(a)	1/1 (100%)	3/3 (100%)	
POLY-3 RATE (b)	1/1.00	3/3.00	
POLY-3 PERCENT (g)	100%	100%	
TERMINAL (d)	1/1 (100%)	3/3 (100%)	
FIRST INCIDENCE	734(T)	734(T)	
STATISTICAL TESTS			
POLY 3	(e)	(e)	
POLY 1.5	(e)	(e)	
POLY 6	(e)	(e)	
COCH-ARM / FISHERS	(e)	(e)	
MAX-ISO-POLY-3	(e)	(e)	
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:04:36

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

DOSE	7M	9M	MALE
Pancreas: Acinus			
Atrophy			
LESION RATES			
OVERALL(a)	2/48 (4%)	1/59 (2%)	
POLY-3 RATE (b)	2/44.44	1/56.01	
POLY-3 PERCENT (g)	4.5%	1.8%	
TERMINAL (d)	2/38 (5%)	1/48 (2%)	
FIRST INCIDENCE	734(T)	734(T)	
STATISTICAL TESTS			
POLY 3	P=0.420N	P=0.420N	
POLY 1.5	P=0.423N	P=0.423N	
POLY 6	P=0.417N	P=0.417N	
COCH-ARM / FISHERS	P=0.428N	P=0.422N	
MAX-ISO-POLY-3	P=0.229N	P=0.229N	
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

DOSE	7M	9M	MALE
Pancreas: Acinus			
Degeneration			
LESION RATES			
OVERALL(a)	1/48 (2%)	0/59 (0%)	
POLY-3 RATE (b)	1/44.44	0/56.01	
POLY-3 PERCENT (g)	2.3%	0%	
TERMINAL (d)	1/38 (3%)	0/48 (0%)	
FIRST INCIDENCE	734(T)	---	
STATISTICAL TESTS			
POLY 3	(n)	(n)	
POLY 1.5	(n)	(n)	
POLY 6	(n)	(n)	
COCH-ARM / FISHERS	(n)	(n)	
MAX-ISO-POLY-3	(n)	(n)	
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

	MALE	
DOSE	7M	9M
<hr/>		
Pancreas: Acinus Hypertrophy		
<hr/>		
LESION RATES		
OVERALL(a)	1/48 (2%)	0/59 (0%)
POLY-3 RATE (b)	1/44.44	0/56.01
POLY-3 PERCENT (g)	2.3%	0%
TERMINAL (d)	1/38 (3%)	0/48 (0%)
FIRST INCIDENCE	734(T)	---
<hr/>		
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

	MALE	
DOSE	7M	9M
Pancreas: Acinus Inflammation		
LESION RATES		
OVERALL(a)	0/48 (0%)	0/59 (0%)
POLY-3 RATE (b)	0/44.44	0/56.01
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/38 (0%)	0/48 (0%)
FIRST INCIDENCE	---	---
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:04:36

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

	MALE	
DOSE	7M	9M
<hr/>		
Pancreas: Acinus		
Vacuolization Cytoplasmic		
<hr/>		
LESION RATES		
OVERALL(a)	9/48 (19%)	3/59 (5%)
POLY-3 RATE (b)	9/44.92	3/56.01
POLY-3 PERCENT (g)	20%	5.4%
TERMINAL (d)	7/38 (18%)	3/48 (6%)
FIRST INCIDENCE	668	734(T)
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.023N*	P=0.023N*
POLY 1.5	P=0.024N*	P=0.024N*
POLY 6	P=0.023N*	P=0.023N*
COCH-ARM / FISHERS	P=0.027N*	P=0.027N*
MAX-ISO-POLY-3	P=0.015N*	P=0.015N*
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

DOSE	7M	9M	MALE
Pituitary Gland: Pars Distalis			
Hyperplasia			
LESION RATES			
OVERALL(a)	0/42 (0%)	0/48 (0%)	
POLY-3 RATE (b)	0/37.57	0/45.13	
POLY-3 PERCENT (g)	0%	0%	
TERMINAL (d)	0/30 (0%)	0/38 (0%)	
FIRST INCIDENCE	---	---	
STATISTICAL TESTS			
POLY 3	(n)	(n)	
POLY 1.5	(n)	(n)	
POLY 6	(n)	(n)	
COCH-ARM / FISHERS	(n)	(n)	
MAX-ISO-POLY-3	(n)	(n)	
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

	MALE	
DOSE	7M	9M
Seminal Vesicle Hypertrophy		
LESION RATES		
OVERALL(a)	38/39 (97%)	26/26 (100%)
POLY-3 RATE (b)	38/39.00	26/26.00
POLY-3 PERCENT (g)	97.4%	100%
TERMINAL (d)	32/33 (97%)	21/21 (100%)
FIRST INCIDENCE	664	588
STATISTICAL TESTS		
POLY 3	P=0.581	P=0.581
POLY 1.5	P=0.581	P=0.581
POLY 6	P=0.581	P=0.581
COCH-ARM / FISHERS	P=0.581	P=0.600
MAX-ISO-POLY-3	P=0.229	P=0.229
HISTCONT SAME RTE		
HISTCONT ALL RTEs		
CURR VS HC SAME RTE		
CURR VS HC ALL RTEs		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

	MALE	
DOSE	7M	9M
<hr/>		
Skin: Hair Follicle		
Atrophy		
<hr/>		
LESION RATES		
OVERALL(a)	0/2 (0%)	0/3 (0%)
POLY-3 RATE (b)	0/2.00	0/3.00
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/2 (0%)	0/3 (0%)
FIRST INCIDENCE	---	---
<hr/>		
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE		
HISTCONT ALL RTEs		
CURR VS HC SAME RTE		
CURR VS HC ALL RTEs		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

DOSE	7M	9M	MALE
Spleen			
Hematopoietic Cell Proliferation			
LESION RATES			
OVERALL(a)	5/49 (10%)	3/55 (5%)	
POLY-3 RATE (b)	5/46.75	3/53.31	
POLY-3 PERCENT (g)	10.7%	5.6%	
TERMINAL (d)	2/38 (5%)	2/46 (4%)	
FIRST INCIDENCE	623	489	
STATISTICAL TESTS			
POLY 3	P=0.288N	P=0.288N	
POLY 1.5	P=0.290N	P=0.290N	
POLY 6	P=0.286N	P=0.286N	
COCH-ARM / FISHERS	P=0.295N	P=0.295N	
MAX-ISO-POLY-3	P=0.186N	P=0.186N	
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

DOSE	7M	9M	MALE
Spleen			
Hyperplasia Lymphoid			
LESION RATES			
OVERALL(a)	3/49 (6%)	1/55 (2%)	
POLY-3 RATE (b)	3/46.01	1/52.61	
POLY-3 PERCENT (g)	6.5%	1.9%	
TERMINAL (d)	2/38 (5%)	1/46 (2%)	
FIRST INCIDENCE	721	734(T)	
STATISTICAL TESTS			
POLY 3	P=0.259N	P=0.259N	
POLY 1.5	P=0.261N	P=0.261N	
POLY 6	P=0.256N	P=0.256N	
COCH-ARM / FISHERS	P=0.265N	P=0.266N	
MAX-ISO-POLY-3	P=0.133N	P=0.133N	
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

DOSE	7M	9M	MALE
Testes			
Degeneration			
LESION RATES			
OVERALL(a)	2/57 (4%)	3/62 (5%)	
POLY-3 RATE (b)	2/53.85	3/61.00	
POLY-3 PERCENT (g)	3.7%	4.9%	
TERMINAL (d)	2/51 (4%)	3/58 (5%)	
FIRST INCIDENCE	637(T)	637(T)	
STATISTICAL TESTS			
POLY 3	P=0.556	P=0.556	
POLY 1.5	P=0.551	P=0.551	
POLY 6	P=0.559	P=0.559	
COCH-ARM / FISHERS	P=0.538	P=0.540	
MAX-ISO-POLY-3	P=0.382	P=0.382	
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

	MALE	
DOSE	7M	9M
Thymus: Epithel Cell Hyperplasia		
LESION RATES		
OVERALL(a)	0/11 (0%)	1/13 (8%)
POLY-3 RATE (b)	0/10.26	1/12.87
POLY-3 PERCENT (g)	0%	7.8%
TERMINAL (d)	0/10 (0%)	1/12 (8%)
FIRST INCIDENCE	---	734(T)
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

DOSE	7M	9M
MALE		
Thyroid Gland: Follicle Cyst		
LESION RATES		
OVERALL(a)	13/49 (27%)	27/56 (48%)
POLY-3 RATE (b)	13/45.82	27/55.04
POLY-3 PERCENT (g)	28.4%	49.1%
TERMINAL (d)	12/36 (33%)	22/45 (49%)
FIRST INCIDENCE	685	489
STATISTICAL TESTS		
POLY 3	P=0.026*	P=0.026*
POLY 1.5	P=0.022*	P=0.022*
POLY 6	P=0.032*	P=0.032*
COCH-ARM / FISHERS	P=0.019*	P=0.018*
MAX-ISO-POLY-3	P=0.021*	P=0.021*
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS**

DOSE	7M	9M	MALE
Thyroid Gland: Follicular Cel Hyperplasia			
LESION RATES			
OVERALL(a)	16/49 (33%)	25/56 (45%)	
POLY-3 RATE (b)	16/45.85	25/53.37	
POLY-3 PERCENT (g)	34.9%	46.8%	
TERMINAL (d)	14/36 (39%)	23/45 (51%)	
FIRST INCIDENCE	704	701	
STATISTICAL TESTS			
POLY 3	P=0.156	P=0.156	
POLY 1.5	P=0.153	P=0.153	
POLY 6	P=0.164	P=0.164	
COCH-ARM / FISHERS	P=0.146	P=0.145	
MAX-ISO-POLY-3	P=0.122	P=0.122	
HISTCONT SAME RTE			
HISTCONT ALL RTES			
CURR VS HC SAME RTE			
CURR VS HC ALL RTES			

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

FEMALE		
DOSE	7F	9F
Adrenal Cortex		
Hypertrophy		
LESION RATES		
OVERALL(a)	0/52 (0%)	0/52 (0%)
POLY-3 RATE (b)	0/50.65	0/48.81
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/47 (0%)	0/47 (0%)
FIRST INCIDENCE	---	---
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

	FEMALE	
DOSE	7F	9F
Adrenal Cortex: Capsule Hyperplasia		
LESION RATES		
OVERALL(a)	52/52 (100%)	50/52 (96%)
POLY-3 RATE (b)	52/52.00	50/51.00
POLY-3 PERCENT (g)	100%	98%
TERMINAL (d)	47/47 (100%)	46/47 (98%)
FIRST INCIDENCE	421	121
STATISTICAL TESTS		
POLY 3	P=0.496N	P=0.496N
POLY 1.5	P=0.482N	P=0.482N
POLY 6	P=0.496N	P=0.496N
COCH-ARM / FISHERS	P=0.238N	P=0.248N
MAX-ISO-POLY-3	P=0.159N	P=0.159N
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

FEMALE		
DOSE	7F	9F
Heart		
Cardiomyopathy		
LESION RATES		
OVERALL(a)	0/62 (0%)	0/64 (0%)
POLY-3 RATE (b)	0/59.91	0/60.78
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/54 (0%)	0/58 (0%)
FIRST INCIDENCE	---	---
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

FEMALE		
DOSE	7F	9F
Heart: Coron Artery Inflammation		
LESION RATES		
OVERALL(a)	0/62 (0%)	0/64 (0%)
POLY-3 RATE (b)	0/59.91	0/60.78
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/54 (0%)	0/58 (0%)
FIRST INCIDENCE	---	---
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:04:36

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

FEMALE		
DOSE	7F	9F
Islets, Pancreatic Hyperplasia		
LESION RATES		
OVERALL(a)	27/53 (51%)	22/58 (38%)
POLY-3 RATE (b)	27/52.27	22/57.00
POLY-3 PERCENT (g)	51.7%	38.6%
TERMINAL (d)	26/51 (51%)	19/54 (35%)
FIRST INCIDENCE	623	121
STATISTICAL TESTS		
POLY 3	P=0.119N	P=0.119N
POLY 1.5	P=0.123N	P=0.123N
POLY 6	P=0.116N	P=0.116N
COCH-ARM / FISHERS	P=0.117N	P=0.117N
MAX-ISO-POLY-3	P=0.090N	P=0.090N
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

FEMALE		
DOSE	7F	9F
Kidney		
Metaplasia Osseous		
LESION RATES		
OVERALL(a)	2/56 (4%)	0/62 (0%)
POLY-3 RATE (b)	2/55.05	0/58.77
POLY-3 PERCENT (g)	3.6%	0%
TERMINAL (d)	2/53 (4%)	0/55 (0%)
FIRST INCIDENCE	653(T)	---
STATISTICAL TESTS		
POLY 3	P=0.223N	P=0.223N
POLY 1.5	P=0.222N	P=0.222N
POLY 6	P=0.224N	P=0.224N
COCH-ARM / FISHERS	P=0.216N	P=0.223N
MAX-ISO-POLY-3	P=0.072N	P=0.072N
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

FEMALE		
DOSE	7F	9F
Kidney		
Nephropathy		
LESION RATES		
OVERALL(a)	13/56 (23%)	19/62 (31%)
POLY-3 RATE (b)	13/55.05	19/59.76
POLY-3 PERCENT (g)	23.6%	31.8%
TERMINAL (d)	13/53 (25%)	18/55 (33%)
FIRST INCIDENCE	653(T)	121
STATISTICAL TESTS		
POLY 3	P=0.222	P=0.222
POLY 1.5	P=0.225	P=0.225
POLY 6	P=0.216	P=0.216
COCH-ARM / FISHERS	P=0.242	P=0.243
MAX-ISO-POLY-3	P=0.169	P=0.169
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

FEMALE		
DOSE	7F	9F
Kidney: Cortex		
Mineralization		
LESION RATES		
OVERALL(a)	0/56 (0%)	0/62 (0%)
POLY-3 RATE (b)	0/55.05	0/58.77
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/53 (0%)	0/55 (0%)
FIRST INCIDENCE	---	---
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

FEMALE		
DOSE	7F	9F
Kidney: Pelvis		
Hydronephrosis		
LESION RATES		
OVERALL(a)	0/56 (0%)	0/62 (0%)
POLY-3 RATE (b)	0/55.05	0/58.77
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/53 (0%)	0/55 (0%)
FIRST INCIDENCE	---	---
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:04:36

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

	FEMALE	
DOSE	7F	9F
Kidney: Renal Tubule Cyst		
LESION RATES		
OVERALL(a)	0/56 (0%)	0/62 (0%)
POLY-3 RATE (b)	0/55.05	0/58.77
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/53 (0%)	0/55 (0%)
FIRST INCIDENCE	---	---
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

FEMALE		
DOSE	7F	9F
Kidney: Renal Tubule Dilatation		
LESION RATES		
OVERALL(a)	0/56 (0%)	0/62 (0%)
POLY-3 RATE (b)	0/55.05	0/58.77
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/53 (0%)	0/55 (0%)
FIRST INCIDENCE	---	---
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

	FEMALE	
DOSE	7F	9F
Liver		
Angiectasis		
LESION RATES		
OVERALL(a)	0/60 (0%)	1/62 (2%)
POLY-3 RATE (b)	0/58.28	1/58.78
POLY-3 PERCENT (g)	0%	1.7%
TERMINAL (d)	0/54 (0%)	1/56 (2%)
FIRST INCIDENCE	---	653(T)
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

FEMALE		
DOSE	7F	9F
Liver		
Clear Cell Focus		
LESION RATES		
OVERALL(a)	7/60 (12%)	4/62 (6%)
POLY-3 RATE (b)	7/58.28	4/58.78
POLY-3 PERCENT (g)	12%	6.8%
TERMINAL (d)	7/54 (13%)	4/56 (7%)
FIRST INCIDENCE	653(T)	653(T)
STATISTICAL TESTS		
POLY 3	P=0.259N	P=0.259N
POLY 1.5	P=0.260N	P=0.260N
POLY 6	P=0.257N	P=0.257N
COCH-ARM / FISHERS	P=0.245N	P=0.246N
MAX-ISO-POLY-3	P=0.170N	P=0.170N
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:04:36

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

	FEMALE	
DOSE	7F	9F
<hr/>		
Liver		
Eosinophilic Focus		
<hr/>		
LESION RATES		
OVERALL(a)	21/60 (35%)	15/62 (24%)
POLY-3 RATE (b)	21/58.28	15/58.78
POLY-3 PERCENT (g)	36%	25.5%
TERMINAL (d)	21/54 (39%)	15/56 (27%)
FIRST INCIDENCE	653(T)	653(T)
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.151N	P=0.151N
POLY 1.5	P=0.153N	P=0.153N
POLY 6	P=0.146N	P=0.146N
COCH-ARM / FISHERS	P=0.134N	P=0.134N
MAX-ISO-POLY-3	P=0.110N	P=0.110N
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

FEMALE		
DOSE	7F	9F
Liver		
Inflammation Focal		
LESION RATES		
OVERALL(a)	2/60 (3%)	0/62 (0%)
POLY-3 RATE (b)	2/58.28	0/58.78
POLY-3 PERCENT (g)	3.4%	0%
TERMINAL (d)	2/54 (4%)	0/56 (0%)
FIRST INCIDENCE	653(T)	---
STATISTICAL TESTS		
POLY 3	P=0.236N	P=0.236N
POLY 1.5	P=0.236N	P=0.236N
POLY 6	P=0.235N	P=0.235N
COCH-ARM / FISHERS	P=0.231N	P=0.240N
MAX-ISO-POLY-3	P=0.077N	P=0.077N
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

FEMALE		
DOSE	7F	9F
Liver		
Mixed Cell Focus		
LESION RATES		
OVERALL(a)	3/60 (5%)	2/62 (3%)
POLY-3 RATE (b)	3/58.28	2/58.78
POLY-3 PERCENT (g)	5.1%	3.4%
TERMINAL (d)	3/54 (6%)	2/56 (4%)
FIRST INCIDENCE	653(T)	653(T)
STATISTICAL TESTS		
POLY 3	P=0.496N	P=0.496N
POLY 1.5	P=0.497N	P=0.497N
POLY 6	P=0.494N	P=0.494N
COCH-ARM / FISHERS	P=0.485N	P=0.484N
MAX-ISO-POLY-3	P=0.322N	P=0.322N
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

FEMALE		
DOSE	7F	9F
Liver: Hepatocyte Necrosis		
LESION RATES		
OVERALL(a)	2/60 (3%)	2/62 (3%)
POLY-3 RATE (b)	2/58.28	2/59.10
POLY-3 PERCENT (g)	3.4%	3.4%
TERMINAL (d)	2/54 (4%)	1/56 (2%)
FIRST INCIDENCE	653(T)	574
STATISTICAL TESTS		
POLY 3	P=0.688N	P=0.688N
POLY 1.5	P=0.689N	P=0.689N
POLY 6	P=0.685N	P=0.685N
COCH-ARM / FISHERS	P=0.683N	P=0.678N
MAX-ISO-POLY-3	P=0.495N	P=0.495N
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

	FEMALE	
DOSE	7F	9F
<hr/>		
Lung		
Pigmentation		
<hr/>		
LESION RATES		
OVERALL(a)	0/60 (0%)	2/64 (3%)
POLY-3 RATE (b)	0/58.28	2/60.42
POLY-3 PERCENT (g)	0%	3.3%
TERMINAL (d)	0/54 (0%)	2/57 (4%)
FIRST INCIDENCE	---	653(T)
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.246	P=0.246
POLY 1.5	P=0.246	P=0.246
POLY 6	P=0.246	P=0.246
COCH-ARM / FISHERS	P=0.252	P=0.264
MAX-ISO-POLY-3	P=0.081	P=0.081
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:04:36

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

FEMALE		
DOSE	7F	9F
Lung: Alveolar Epith Hyperplasia		
LESION RATES		
OVERALL(a)	3/60 (5%)	0/64 (0%)
POLY-3 RATE (b)	3/58.28	0/60.42
POLY-3 PERCENT (g)	5.1%	0%
TERMINAL (d)	3/54 (6%)	0/57 (0%)
FIRST INCIDENCE	653(T)	---
STATISTICAL TESTS		
POLY 3	P=0.114N	P=0.114N
POLY 1.5	P=0.113N	P=0.113N
POLY 6	P=0.113N	P=0.113N
COCH-ARM / FISHERS	P=0.110N	P=0.110N
MAX-ISO-POLY-3	P=0.037N*	P=0.037N*
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

	FEMALE	
DOSE	7F	9F
<hr/>		
Lung: Alveolus		
Infiltration Cellular Histiocyte		
<hr/>		
LESION RATES		
OVERALL(a)	1/60 (2%)	2/64 (3%)
POLY-3 RATE (b)	1/59.01	2/60.78
POLY-3 PERCENT (g)	1.7%	3.3%
TERMINAL (d)	0/54 (0%)	1/57 (2%)
FIRST INCIDENCE	421	561
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.510	P=0.510
POLY 1.5	P=0.511	P=0.511
POLY 6	P=0.511	P=0.511
COCH-ARM / FISHERS	P=0.523	P=0.524
MAX-ISO-POLY-3	P=0.289	P=0.289
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

DOSE	7F	9F
FEMALE		
Lymph Node, Mandibular Erythrophagocytosis		
LESION RATES		
OVERALL(a)	0/49 (0%)	3/54 (6%)
POLY-3 RATE (b)	0/48.87	3/51.37
POLY-3 PERCENT (g)	0%	5.8%
TERMINAL (d)	0/48 (0%)	3/50 (6%)
FIRST INCIDENCE	---	653(T)
STATISTICAL TESTS		
POLY 3	P=0.128	P=0.128
POLY 1.5	P=0.129	P=0.129
POLY 6	P=0.127	P=0.127
COCH-ARM / FISHERS	P=0.138	P=0.140
MAX-ISO-POLY-3	P=0.043*	P=0.043*
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

FEMALE		
DOSE	7F	9F
Lymph Node, Mandibular Infiltration Cellular Histiocyte		
LESION RATES		
OVERALL(a)	0/49 (0%)	0/54 (0%)
POLY-3 RATE (b)	0/48.87	0/51.37
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/48 (0%)	0/50 (0%)
FIRST INCIDENCE	---	---
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

FEMALE		
DOSE	7F	9F
Lymph Node, Mandibular Pigmentation		
LESION RATES		
OVERALL(a)	0/49 (0%)	0/54 (0%)
POLY-3 RATE (b)	0/48.87	0/51.37
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/48 (0%)	0/50 (0%)
FIRST INCIDENCE	---	---
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

FEMALE		
DOSE	7F	9F
Lymph Node, Mesenteric		
Erythrophagocytosis		
LESION RATES		
OVERALL(a)	3/43 (7%)	1/51 (2%)
POLY-3 RATE (b)	3/42.87	1/48.37
POLY-3 PERCENT (g)	7%	2.1%
TERMINAL (d)	3/42 (7%)	1/47 (2%)
FIRST INCIDENCE	653(T)	653(T)
STATISTICAL TESTS		
POLY 3	P=0.263N	P=0.263N
POLY 1.5	P=0.261N	P=0.261N
POLY 6	P=0.265N	P=0.265N
COCH-ARM / FISHERS	P=0.246N	P=0.247N
MAX-ISO-POLY-3	P=0.131N	P=0.131N
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

	FEMALE	
DOSE	7F	9F
Lymph Node, Mesenteric		
Infiltration Cellular		
LESION RATES		
OVERALL(a)	0/43 (0%)	1/51 (2%)
POLY-3 RATE (b)	0/42.87	1/48.37
POLY-3 PERCENT (g)	0%	2.1%
TERMINAL (d)	0/42 (0%)	1/47 (2%)
FIRST INCIDENCE	---	653(T)
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

FEMALE		
DOSE	7F	9F
Lymph Node, Mesenteric Infiltration Cellular Histiocyte		
LESION RATES		
OVERALL(a)	26/43 (60%)	26/51 (51%)
POLY-3 RATE (b)	26/43.00	26/49.68
POLY-3 PERCENT (g)	60.5%	52.3%
TERMINAL (d)	25/42 (60%)	24/47 (51%)
FIRST INCIDENCE	623	121
STATISTICAL TESTS		
POLY 3	P=0.283N	P=0.283N
POLY 1.5	P=0.277N	P=0.277N
POLY 6	P=0.291N	P=0.291N
COCH-ARM / FISHERS	P=0.238N	P=0.238N
MAX-ISO-POLY-3	P=0.223N	P=0.223N
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

	FEMALE	
DOSE	7F	9F
<hr/>		
Mesentery: Fat Necrosis		
<hr/>		
LESION RATES		
OVERALL(a)	15/15 (100%)	11/12 (92%)
POLY-3 RATE (b)	15/15.00	11/12.00
POLY-3 PERCENT (g)	100%	91.7%
TERMINAL (d)	9/9 (100%)	11/12 (92%)
FIRST INCIDENCE	421	736(T)
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.455N	P=0.455N
POLY 1.5	P=0.455N	P=0.455N
POLY 6	P=0.455N	P=0.455N
COCH-ARM / FISHERS	P=0.455N	P=0.444N
MAX-ISO-POLY-3	P=0.144N	P=0.144N
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

FEMALE		
DOSE	7F	9F
Ovary		
Cyst		
LESION RATES		
OVERALL(a)	15/52 (29%)	22/59 (37%)
POLY-3 RATE (b)	15/51.00	22/56.81
POLY-3 PERCENT (g)	29.4%	38.7%
TERMINAL (d)	15/49 (31%)	22/55 (40%)
FIRST INCIDENCE	653(T)	653(T)
STATISTICAL TESTS		
POLY 3	P=0.208	P=0.208
POLY 1.5	P=0.212	P=0.212
POLY 6	P=0.203	P=0.203
COCH-ARM / FISHERS	P=0.230	P=0.230
MAX-ISO-POLY-3	P=0.161	P=0.161
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:04:36

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

	FEMALE	
DOSE	7F	9F
<hr/>		
Pancreas: Acinus		
Atrophy		
<hr/>		
LESION RATES		
OVERALL(a)	0/54 (0%)	0/57 (0%)
POLY-3 RATE (b)	0/53.10	0/54.13
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/51 (0%)	0/53 (0%)
FIRST INCIDENCE	---	---
<hr/>		
STATISTICAL TESTS		
POLY 3	(n)	(n)
POLY 1.5	(n)	(n)
POLY 6	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

FEMALE		
DOSE	7F	9F
Pancreas: Acinus		
Degeneration		
LESION RATES		
OVERALL(a)	3/54 (6%)	2/57 (4%)
POLY-3 RATE (b)	3/53.10	2/54.13
POLY-3 PERCENT (g)	5.6%	3.7%
TERMINAL (d)	3/51 (6%)	2/53 (4%)
FIRST INCIDENCE	653(T)	653(T)
STATISTICAL TESTS		
POLY 3	P=0.491N	P=0.491N
POLY 1.5	P=0.490N	P=0.490N
POLY 6	P=0.492N	P=0.492N
COCH-ARM / FISHERS	P=0.475N	P=0.474N
MAX-ISO-POLY-3	P=0.317N	P=0.317N
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

	FEMALE	
DOSE	7F	9F
<hr/>		
Pancreas: Acinus Hypertrophy		
LESION RATES		
OVERALL(a)	0/54 (0%)	2/57 (4%)
POLY-3 RATE (b)	0/53.10	2/54.13
POLY-3 PERCENT (g)	0%	3.7%
TERMINAL (d)	0/51 (0%)	2/53 (4%)
FIRST INCIDENCE	---	653(T)
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.242	P=0.242
POLY 1.5	P=0.242	P=0.242
POLY 6	P=0.241	P=0.241
COCH-ARM / FISHERS	P=0.250	P=0.261
MAX-ISO-POLY-3	P=0.080	P=0.080
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

DOSE	7F	9F
Pancreas: Acinus Inflammation		
LESION RATES		
OVERALL(a)	5/54 (9%)	0/57 (0%)
POLY-3 RATE (b)	5/53.10	0/54.13
POLY-3 PERCENT (g)	9.4%	0%
TERMINAL (d)	5/51 (10%)	0/53 (0%)
FIRST INCIDENCE	653(T)	---
STATISTICAL TESTS		
POLY 3	P=0.030N*	P=0.030N*
POLY 1.5	P=0.030N*	P=0.030N*
POLY 6	P=0.030N*	P=0.030N*
COCH-ARM / FISHERS	P=0.029N*	P=0.025N*
MAX-ISO-POLY-3	P=0.010N**	P=0.010N**
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:36
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

	FEMALE	
DOSE	7F	9F
<hr/>		
Pancreas: Acinus		
Vacuolization Cytoplasmic		
<hr/>		
LESION RATES		
OVERALL(a)	1/54 (2%)	3/57 (5%)
POLY-3 RATE (b)	1/53.10	3/54.13
POLY-3 PERCENT (g)	1.9%	5.5%
TERMINAL (d)	1/51 (2%)	3/53 (6%)
FIRST INCIDENCE	653(T)	653(T)
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.313	P=0.313
POLY 1.5	P=0.314	P=0.314
POLY 6	P=0.312	P=0.312
COCH-ARM / FISHERS	P=0.325	P=0.330
MAX-ISO-POLY-3	P=0.161	P=0.161
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:37
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

	FEMALE	
DOSE	7F	9F
Pituitary Gland: Pars Distalis		
Hyperplasia		
LESION RATES		
OVERALL(a)	0/47 (0%)	5/52 (10%)
POLY-3 RATE (b)	0/45.87	5/49.09
POLY-3 PERCENT (g)	0%	10.2%
TERMINAL (d)	0/44 (0%)	5/46 (11%)
FIRST INCIDENCE	---	653(T)
STATISTICAL TESTS		
POLY 3	P=0.037*	P=0.037*
POLY 1.5	P=0.037*	P=0.037*
POLY 6	P=0.037*	P=0.037*
COCH-ARM / FISHERS	P=0.043*	P=0.036*
MAX-ISO-POLY-3	P=0.013*	P=0.013*
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:37
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

FEMALE		
DOSE	7F	9F
Skin: Hair Follicle		
Atrophy		
LESION RATES		
OVERALL(a)	0/4 (0%)	2/7 (29%)
POLY-3 RATE (b)	0/3.75	2/5.67
POLY-3 PERCENT (g)	0%	35.3%
TERMINAL (d)	0/3 (0%)	2/4 (50%)
FIRST INCIDENCE	---	736(T)
STATISTICAL TESTS		
POLY 3	P=0.312	P=0.312
POLY 1.5	P=0.333	P=0.333
POLY 6	P=0.285	P=0.285
COCH-ARM / FISHERS	P=0.356	P=0.382
MAX-ISO-POLY-3	P=0.109	P=0.109
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:37
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

	FEMALE	
DOSE	7F	9F
Spleen		
Hematopoietic Cell Proliferation		
LESION RATES		
OVERALL(a)	14/55 (25%)	21/61 (34%)
POLY-3 RATE (b)	14/54.87	21/58.43
POLY-3 PERCENT (g)	25.5%	35.9%
TERMINAL (d)	12/52 (23%)	19/55 (35%)
FIRST INCIDENCE	421	574
STATISTICAL TESTS		
POLY 3	P=0.160	P=0.160
POLY 1.5	P=0.164	P=0.164
POLY 6	P=0.157	P=0.157
COCH-ARM / FISHERS	P=0.198	P=0.198
MAX-ISO-POLY-3	P=0.117	P=0.117
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:37
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

	FEMALE	
DOSE	7F	9F
<hr/>		
Spleen		
Hyperplasia Lymphoid		
<hr/>		
LESION RATES		
OVERALL(a)	1/55 (2%)	3/61 (5%)
POLY-3 RATE (b)	1/54.05	3/57.78
POLY-3 PERCENT (g)	1.9%	5.2%
TERMINAL (d)	1/52 (2%)	3/55 (5%)
FIRST INCIDENCE	653(T)	653(T)
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.330	P=0.330
POLY 1.5	P=0.332	P=0.332
POLY 6	P=0.328	P=0.328
COCH-ARM / FISHERS	P=0.343	P=0.349
MAX-ISO-POLY-3	P=0.174	P=0.174
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:37
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

	FEMALE	
DOSE	7F	9F
Thymus: Epithel Cell Hyperplasia		
LESION RATES		
OVERALL(a)	5/20 (25%)	6/25 (24%)
POLY-3 RATE (b)	5/20.00	6/24.00
POLY-3 PERCENT (g)	25%	25%
TERMINAL (d)	5/20 (25%)	6/24 (25%)
FIRST INCIDENCE	736(T)	736(T)
STATISTICAL TESTS		
POLY 3	P=0.634N	P=0.634N
POLY 1.5	P=0.633N	P=0.633N
POLY 6	P=0.634N	P=0.634N
COCH-ARM / FISHERS	P=0.607N	P=0.604N
MAX-ISO-POLY-3	P=0.500N	P=0.500N
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:37
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

	FEMALE	
DOSE	7F	9F
<hr/>		
Thyroid Gland: Follicle Cyst		
<hr/>		
LESION RATES		
OVERALL(a)	36/54 (67%)	44/60 (73%)
POLY-3 RATE (b)	36/53.92	44/56.81
POLY-3 PERCENT (g)	66.8%	77.5%
TERMINAL (d)	35/52 (67%)	44/55 (80%)
FIRST INCIDENCE	560	653(T)
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.147	P=0.147
POLY 1.5	P=0.170	P=0.170
POLY 6	P=0.124	P=0.124
COCH-ARM / FISHERS	P=0.284	P=0.284
MAX-ISO-POLY-3	P=0.104	P=0.104
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:37
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

FEMALE		
DOSE	7F	9F
Thyroid Gland: Follicular Cel Hyperplasia		
LESION RATES		
OVERALL(a)	20/54 (37%)	42/60 (70%)
POLY-3 RATE (b)	20/53.55	42/57.37
POLY-3 PERCENT (g)	37.3%	73.2%
TERMINAL (d)	20/52 (38%)	41/55 (75%)
FIRST INCIDENCE	653(T)	497
STATISTICAL TESTS		
POLY 3	P=0.000**	P=0.000**
POLY 1.5	P=0.000**	P=0.000**
POLY 6	P=0.000**	P=0.000**
COCH-ARM / FISHERS	P=0.000**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	P=0.000**
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:37
First Dose M/F: NA / NA
Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS**

DOSE	7F	9F
FEMALE		
<hr/>		
Uterus		
Cyst		
<hr/>		
LESION RATES		
OVERALL(a)	56/58 (97%)	54/63 (86%)
POLY-3 RATE (b)	56/57.27	54/61.80
POLY-3 PERCENT (g)	97.8%	87.4%
TERMINAL (d)	53/54 (98%)	52/58 (90%)
FIRST INCIDENCE	560	121
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.028N*	P=0.028N*
POLY 1.5	P=0.029N*	P=0.029N*
POLY 6	P=0.034N*	P=0.034N*
COCH-ARM / FISHERS	P=0.040N*	P=0.037N*
MAX-ISO-POLY-3	P=0.013N*	P=0.013N*
HISTCONT SAME RTE		
HISTCONT ALL RTES		
CURR VS HC SAME RTE		
CURR VS HC ALL RTES		

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:37
First Dose M/F: NA / NA
Lab: NIEHS

LEGEND

- (a) Number of tumor-bearing animals/number of animals examined at site.
 - (b) Number of tumor-bearing animals/Poly-3 number
 - (d) Observed incidence at terminal kill.
 - (e) Value of statistic cannot be computed.
 - (f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group.
 - (g) Poly-3 adjusted lifetime tumor incidence.
 - (n) No statistics are calculated if all dose groups have fewer than two tumors.
 - (I) Interim sacrifice
 - (T) Terminal sacrifice
 - # Tumor rates based on numbers of animals necropsied.
 - * To the right of any statistical result, indicates significance at ($P \leq 0.05$).
 - ** To the right of any statistical result, indicates significance at ($P \leq 0.01$).
 - N Indicates a negative trend for all tests
- The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

**** END OF REPORT ****