

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:39
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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HISTORICAL CONTROL STUDIES

From October 1996 report

SAME ROUTE

05068-10 -- Codeine (ORAL FEED)
05100-04 -- Tricresyl phosphate (ORAL FEED)
05103-04 -- 2,2-bis(Bromomethyl)-1,3-propanediol (ORAL FEED)
05120-04 -- Benzyl acetate (ORAL FEED)
05150-02 -- Methylphenidate hydrochloride (ORAL FEED)
05155-04 -- p-Nitrobenzoic acid (ORAL FEED)
05165-02 -- 4,4-Thiobis(6-tert-butyl-m-cresol) (ORAL FEED)
05182-04 -- Phenolphthalein (ORAL FEED)
05212-03 -- Oxazepam (ORAL FEED)
05217-05 -- t-Butylhydroquinone (ORAL FEED)

ALL ROUTES

05067-10 -- Theophylline (GAVAGE CORN OIL)
05068-10 -- Codeine (ORAL FEED)
05069-07 -- 1,2-Dihydro-2,2,4-trimethylquinoline (monomer) (SKIN ACETONE)
05099-08 -- Salicylazosulfapyridine (GAVAGE CORN OIL)
05102-06 -- Benzethonium chloride (SKIN ETHANOL)
05103-04 -- 2,2-bis(Bromomethyl)-1,3-propanediol (ORAL FEED)
05107-06 -- Nickel subsulfide (INHALATION)
05109-12 -- Triethanolamine (SKIN ACETONE)
05121-07 -- Scopolamine hydrobromide trihydrate (GAVAGE WATER)
05122-06 -- Nickel sulfate hexahydrate (INHALATION)
05123-06 -- Nickel (II) oxide (INHALATION)
05133-04 -- Acetonitrile (INHALATION AIR)
05155-04 -- p-Nitrobenzoic acid (ORAL FEED)
05156-06 -- Cobalt sulfate heptahydrate (INHALATION AIR)
05158-04 -- Molybdenum trioxide (INHALATION AIR)
05165-02 -- 4,4-Thiobis(6-tert-butyl-m-cresol) (ORAL FEED)
05181-04 -- Tetrahydrofuran (INHALATION AIR)
05182-04 -- Phenolphthalein (ORAL FEED)
05185-04 -- Isobutyl nitrite (INHALATION AIR)

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HISTORICAL CONTROL STUDIES

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05188-06 -- Sodium xylenesulfonate (SKIN ETHANOL)

05200-06 -- Nitromethane (INHALATION AIR)

05210-04 -- Ethylbenzene (INHALATION AIR)

05212-03 -- Oxazepam (ORAL FEED)

05214-02 -- 1-trans-delta-9-Tetrahydrocannabinol (GAVAGE CORN OIL)

05217-05 -- t-Butylhydroquinone (ORAL FEED)

88034-04 -- Ozone (INHALATION AIR)

88066-01 -- Polyvinyl alcohol (VAGINAL DEIONIZED WATER)

89006-04 -- Interferon AD + 3'-azido-3'-deoxythymidine (AIDS Initiative) (GAVAGE SERUM|0.5 % AQUEOUS METHYLCELLULOSE)

89006-06 -- 3'-Azido-3'-deoxythymidine (AIDS) (GAVAGE METHYLCELLULOSE)

89006-08 -- Interferon A (AIDS Initiative) (SUBCUTANEOUS SERUM)

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**FOR ALL DOSES THE TUMOR RATES IN THE FOLLOWING TISSUES/ORGANS ARE BASED ON NUMBER OF TISSUES
IN OTHER TISSUES/ORGANS RATES ARE BASED ON THE NUMBER OF ANIMALS NECROPSIED.**

Islets, Pancreatic

Liver

Lung

Ovary

Pituitary Gland

Spleen

Thyroid Gland

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

MALE MOUSE

Organ

Liver

All Organs

FEMALE MOUSE

Organ

Liver

Pituitary Gland: Pars Distalis or Unspecified Site

All Organs

Morphology

Hepatocellular Adenoma

Hepatocellular Carcinoma

Hepatocellular Carcinoma or Hepatoblastoma

Malignant Tumors

Malignant and Benign Tumors

Morphology

Hepatocellular Adenoma

Hepatocellular Carcinoma or Hepatocellular Adenoma

Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma

Adenoma

Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type

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STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 105 WEEKS

DOSE	MALE	
	7M	9M
Harderian Gland		
Adenoma		
TUMOR RATES	#	#
OVERALL(a)	0/60 (0%)	2/64 (3%)
POLY-3 RATE (b)	0/56.42	2/62.69
POLY-3 PERCENT (g)	0%	3.2%
TERMINAL (d)	0/53 (0%)	2/58 (3%)
FIRST INCIDENCE	---	637(T)
HC TUMORS SAME ROUTE	24/502 (5%)	
HC TUMORS ALL ROUTES	69/1541 (4%)	
STATISTICAL TESTS		
POLY 3	P=0.262	P=0.262
POLY 1.5	P=0.259	P=0.259
POLY 6	P=0.263	P=0.263
COCH-ARM / FISHERS	P=0.252	P=0.264
MAX-ISO-POLY-3	P=0.097	P=0.097
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.079	
CURR VS HC ALL RTEs	P=0.084	

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STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 105 WEEKS

DOSE	MALE	
	7M	9M
Harderian Gland		
Carcinoma or Adenoma		
TUMOR RATES	#	#
OVERALL(a)	0/60 (0%)	3/64 (5%)
POLY-3 RATE (b)	0/56.42	3/62.94
POLY-3 PERCENT (g)	0%	4.8%
TERMINAL (d)	0/53 (0%)	2/58 (3%)
FIRST INCIDENCE	---	577
HC TUMORS SAME ROUTE	30/502 (6%)	
HC TUMORS ALL ROUTES	85/1541 (6%)	
STATISTICAL TESTS		
POLY 3	P=0.141	P=0.141
POLY 1.5	P=0.138	P=0.138
POLY 6	P=0.143	P=0.143
COCH-ARM / FISHERS	P=0.133	P=0.134
MAX-ISO-POLY-3	P=0.054	P=0.054
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.046*	
CURR VS HC ALL RTEs	P=0.055	

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STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS

DOSE	7M	9M	MALE
Islets, Pancreatic Carcinoma or Adenoma			
TUMOR RATES			
OVERALL(a)	1/51 (2%)	0/60 (0%)	
POLY-3 RATE (b)	1/46.63	0/56.52	
POLY-3 PERCENT (g)	2.1%	0%	
TERMINAL (d)	1/37 (3%)	0/48 (0%)	
FIRST INCIDENCE	734(T)	---	
HC TUMORS SAME ROUTE	8/500 (2%)		
HC TUMORS ALL ROUTES	17/1477 (1%)		
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	(n)	(n)	
HISTCONT ALL RTEs	(n)	(n)	
CURR VS HC SAME RTE	(n)		
CURR VS HC ALL RTEs	(n)		

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STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 105 WEEKS

DOSE	MALE	
	7M	9M
Liver		
Hemangiosarcoma		
TUMOR RATES		
OVERALL(a)	3/57 (5%)	2/62 (3%)
POLY-3 RATE (b)	3/53.42	2/61.00
POLY-3 PERCENT (g)	5.6%	3.3%
TERMINAL (d)	3/50 (6%)	2/58 (3%)
FIRST INCIDENCE	637(T)	637(T)
HC TUMORS SAME ROUTE	10/500 (2%)	
HC TUMORS ALL ROUTES	46/1539 (3%)	
STATISTICAL TESTS		
POLY 3	P=0.440N	P=0.440N
POLY 1.5	P=0.447N	P=0.447N
POLY 6	P=0.435N	P=0.435N
COCH-ARM / FISHERS	P=0.462N	P=0.460N
MAX-ISO-POLY-3	P=0.281N	P=0.281N
HISTCONT SAME RTE	P=0.282	P=0.437
HISTCONT ALL RTEs	P=0.486	P=1.000
CURR VS HC SAME RTE	P=0.118	
CURR VS HC ALL RTEs	P=0.332	

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STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS

DOSE	MALE	
	7M	9M
Liver		
Hepatocellular Adenoma		
TUMOR RATES		
OVERALL(a)	11/57 (19%)	24/62 (39%)
POLY-3 RATE (b)	11/54.01	24/61.68
POLY-3 PERCENT (g)	20.4%	38.9%
TERMINAL (d)	10/50 (20%)	22/58 (38%)
FIRST INCIDENCE	471	489
HC TUMORS SAME ROUTE	188/500 (38%)	
HC TUMORS ALL ROUTES	589/1539 (38%)	
STATISTICAL TESTS		
POLY 3	P=0.023*	P=0.023*
POLY 1.5	P=0.021*	P=0.021*
POLY 6	P=0.026*	P=0.026*
COCH-ARM / FISHERS	P=0.017*	P=0.016*
MAX-ISO-POLY-3	P=0.018*	P=0.018*
HISTCONT SAME RTE	P=0.485	P=1.000
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.011*	
CURR VS HC ALL RTEs	P=0.003**	

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 LAST REMOVAL AT 105 WEEKS

DOSE	MALE	
	7M	9M
Liver		
Hepatocellular Carcinoma		
TUMOR RATES		
OVERALL(a)	18/57 (32%)	5/62 (8%)
POLY-3 RATE (b)	18/54.63	5/61.07
POLY-3 PERCENT (g)	32.9%	8.2%
TERMINAL (d)	14/50 (28%)	4/58 (7%)
FIRST INCIDENCE	508	623
HC TUMORS SAME ROUTE	105/500 (21%)	
HC TUMORS ALL ROUTES	389/1539 (25%)	
STATISTICAL TESTS		
POLY 3	P=0.001N**	P=0.001N**
POLY 1.5	P=0.001N**	P=0.001N**
POLY 6	P=0.001N**	P=0.001N**
COCH-ARM / FISHERS	P=0.001N**	P=0.001N**
MAX-ISO-POLY-3	P=0.000N**	P=0.000N**
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.054	
CURR VS HC ALL RTEs	P=0.294	

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STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 105 WEEKS

DOSE	MALE	
	7M	9M
Liver		
Hepatocellular Carcinoma or Hepatoblastoma		
TUMOR RATES		
OVERALL(a)	18/57 (32%)	5/62 (8%)
POLY-3 RATE (b)	18/54.63	5/61.07
POLY-3 PERCENT (g)	32.9%	8.2%
TERMINAL (d)	14/50 (28%)	4/58 (7%)
FIRST INCIDENCE	508	623
HC TUMORS SAME ROUTE	105/500 (21%)	
HC TUMORS ALL ROUTES	398/1539 (26%)	
STATISTICAL TESTS		
POLY 3	P=0.001N**	P=0.001N**
POLY 1.5	P=0.001N**	P=0.001N**
POLY 6	P=0.001N**	P=0.001N**
COCH-ARM / FISHERS	P=0.001N**	P=0.001N**
MAX-ISO-POLY-3	P=0.000N**	P=0.000N**
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.054	
CURR VS HC ALL RTEs	P=0.345	

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 LAST REMOVAL AT 105 WEEKS

DOSE	MALE	
	7M	9M
Liver		
Hepatocellular Carcinoma or Hepatocellular Adenoma		
TUMOR RATES		
OVERALL(a)	27/57 (47%)	27/62 (44%)
POLY-3 RATE (b)	27/55.23	27/61.74
POLY-3 PERCENT (g)	48.9%	43.7%
TERMINAL (d)	22/50 (44%)	24/58 (41%)
FIRST INCIDENCE	471	489
HC TUMORS SAME ROUTE	258/500 (52%)	
HC TUMORS ALL ROUTES	844/1539 (55%)	
STATISTICAL TESTS		
POLY 3	P=0.355N	P=0.355N
POLY 1.5	P=0.367N	P=0.367N
POLY 6	P=0.354N	P=0.354N
COCH-ARM / FISHERS	P=0.408N	P=0.408N
MAX-ISO-POLY-3	P=0.296N	P=0.296N
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.592	
CURR VS HC ALL RTEs	P=0.251	

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LAST REMOVAL AT 105 WEEKS

DOSE	7M	9M	MALE
Liver			
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma			
TUMOR RATES			
OVERALL(a)	27/57 (47%)	27/62 (44%)	
POLY-3 RATE (b)	27/55.23	27/61.74	
POLY-3 PERCENT (g)	48.9%	43.7%	
TERMINAL (d)	22/50 (44%)	24/58 (41%)	
FIRST INCIDENCE	471	489	
HC TUMORS SAME ROUTE	258/500 (52%)		
HC TUMORS ALL ROUTES	849/1539 (55%)		
STATISTICAL TESTS			
POLY 3	P=0.355N	P=0.355N	
POLY 1.5	P=0.367N	P=0.367N	
POLY 6	P=0.354N	P=0.354N	
COCH-ARM / FISHERS	P=0.408N	P=0.408N	
MAX-ISO-POLY-3	P=0.296N	P=0.296N	
HISTCONT SAME RTE	(h)	(h)	
HISTCONT ALL RTEs	(h)	(h)	
CURR VS HC SAME RTE	P=0.592		
CURR VS HC ALL RTEs	P=0.233		

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LAST REMOVAL AT 105 WEEKS

DOSE	7M	9M	MALE
Lung			
Alveolar/Bronchiolar Adenoma			
TUMOR RATES			
OVERALL(a)	14/58 (24%)	18/63 (29%)	
POLY-3 RATE (b)	14/55.67	18/62.00	
POLY-3 PERCENT (g)	25.1%	29%	
TERMINAL (d)	12/52 (23%)	17/58 (29%)	
FIRST INCIDENCE	471	614	
HC TUMORS SAME ROUTE	100/502 (20%)		
HC TUMORS ALL ROUTES	287/1541 (19%)		
STATISTICAL TESTS			
POLY 3	P=0.396	P=0.396	
POLY 1.5	P=0.390	P=0.390	
POLY 6	P=0.395	P=0.395	
COCH-ARM / FISHERS	P=0.365	P=0.365	
MAX-ISO-POLY-3	P=0.324	P=0.324	
HISTCONT SAME RTE	P=0.059	P=0.101	
HISTCONT ALL RTEs	P=0.033*	P=0.068	
CURR VS HC SAME RTE	P=0.437		
CURR VS HC ALL RTEs	P=0.335		

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LAST REMOVAL AT 105 WEEKS

DOSE	7M	9M	MALE
Lung			
Alveolar/Bronchiolar Carcinoma			
TUMOR RATES			
OVERALL(a)	3/58 (5%)	6/63 (10%)	
POLY-3 RATE (b)	3/55.76	6/61.96	
POLY-3 PERCENT (g)	5.4%	9.7%	
TERMINAL (d)	2/52 (4%)	5/58 (9%)	
FIRST INCIDENCE	287	623	
HC TUMORS SAME ROUTE	26/502 (5%)		
HC TUMORS ALL ROUTES	108/1541 (7%)		
STATISTICAL TESTS			
POLY 3	P=0.299	P=0.299	
POLY 1.5	P=0.295	P=0.295	
POLY 6	P=0.302	P=0.302	
COCH-ARM / FISHERS	P=0.286	P=0.289	
MAX-ISO-POLY-3	P=0.199	P=0.199	
HISTCONT SAME RTE	P=0.050*	P=0.089	
HISTCONT ALL RTEs	P=0.283	P=0.345	
CURR VS HC SAME RTE	P=0.994		
CURR VS HC ALL RTEs	P=0.551		

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LAST REMOVAL AT 105 WEEKS

DOSE	7M	9M	MALE
Lung			
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma			
TUMOR RATES			
OVERALL(a)	17/58 (29%)	23/63 (37%)	
POLY-3 RATE (b)	17/56.58	23/62.07	
POLY-3 PERCENT (g)	30%	37.1%	
TERMINAL (d)	14/52 (27%)	21/58 (36%)	
FIRST INCIDENCE	287	614	
HC TUMORS SAME ROUTE	122/502 (24%)		
HC TUMORS ALL ROUTES	377/1541 (24%)		
STATISTICAL TESTS			
POLY 3	P=0.271	P=0.271	
POLY 1.5	P=0.269	P=0.269	
POLY 6	P=0.269	P=0.269	
COCH-ARM / FISHERS	P=0.259	P=0.259	
MAX-ISO-POLY-3	P=0.216	P=0.216	
HISTCONT SAME RTE	P=0.019*	P=0.046*	
HISTCONT ALL RTEs	P=0.010**	P=0.030*	
CURR VS HC SAME RTE	P=0.420		
CURR VS HC ALL RTEs	P=0.499		

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STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS

DOSE	7M	9M	MALE
Pituitary Gland: Pars Distalis or Unspecified Site			
Adenoma			
TUMOR RATES	#	#	
OVERALL(a)	0/0 (0%)	0/0 (0%)	
POLY-3 RATE (b)	0/0.00	0/0.00	
POLY-3 PERCENT (g)	0%	0%	
TERMINAL (d)	0/0 (0%)	0/0 (0%)	
FIRST INCIDENCE	---	---	
HC TUMORS SAME ROUTE	(n)	(n)	
HC TUMORS ALL ROUTES	(n)	(n)	
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	(n)		
HISTCONT ALL RTES	(n)		
CURR VS HC SAME RTE	P=2673	P=2673	
CURR VS HC ALL RTES	P=92003-02	P=92003-02	

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:39
First Dose M/F: NA / NA
Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS

DOSE	7M	9M	MALE
Skin			
Sarcoma			
TUMOR 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	---	---	
HC TUMORS SAME ROUTE	4/502 (1%)		
HC TUMORS ALL ROUTES	6/1541 (0%)		
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	(n)	(n)	
HISTCONT ALL RTEs	(n)	(n)	
CURR VS HC SAME RTE	(n)		
CURR VS HC ALL RTEs	(n)		

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:39
First Dose M/F: NA / NA
Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS

DOSE	7M	9M
MALE		
Skin		
Schwannoma Malignant		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	0/60 (0%)	0/64 (0%)
POLY-3 RATE (b)	0/56.42	0/62.69
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/53 (0%)	0/58 (0%)
FIRST INCIDENCE	---	---
HC TUMORS SAME ROUTE	0/502 (0%)	
HC TUMORS ALL ROUTES	0/1541 (0%)	
<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	(n)	(n)
HISTCONT ALL RTEs	(n)	(n)
CURR VS HC SAME RTE	(n)	
CURR VS HC ALL RTEs	(n)	

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:39
First Dose M/F: NA / NA
Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS

DOSE	7M	9M	MALE
Spleen			
Hemangiosarcoma			
TUMOR RATES			
OVERALL(a)	0/60 (0%)	0/64 (0%)	
POLY-3 RATE (b)	0/56.42	0/62.69	
POLY-3 PERCENT (g)	0%	0%	
TERMINAL (d)	0/53 (0%)	0/58 (0%)	
FIRST INCIDENCE	---	---	
HC TUMORS SAME ROUTE	15/500 (3%)		
HC TUMORS ALL ROUTES	26/1525 (2%)		
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	(n)	(n)	
HISTCONT ALL RTEs	(n)	(n)	
CURR VS HC SAME RTE	(n)		
CURR VS HC ALL RTEs	(n)		

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: NTP 90 diet study
 CAS Number: DIET90

Date Report Requested: 10/21/2014
 Time Report Requested: 22:04:39
 First Dose M/F: NA / NA
 Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 105 WEEKS

DOSE	MALE	
	7M	9M
Thyroid Gland: Follicular Cell		
Adenoma		
TUMOR RATES	#	#
OVERALL(a)	0/49 (0%)	3/55 (5%)
POLY-3 RATE (b)	0/45.95	3/52.73
POLY-3 PERCENT (g)	0%	5.7%
TERMINAL (d)	0/38 (0%)	2/46 (4%)
FIRST INCIDENCE	---	704
HC TUMORS SAME ROUTE	6/498 (1%)	
HC TUMORS ALL ROUTES	37/1530 (2%)	
STATISTICAL TESTS		
POLY 3	P=0.145	P=0.145
POLY 1.5	P=0.144	P=0.144
POLY 6	P=0.148	P=0.148
COCH-ARM / FISHERS	P=0.142	P=0.144
MAX-ISO-POLY-3	P=0.056	P=0.056
HISTCONT SAME RTE	P=0.011*	P=0.030*
HISTCONT ALL RTEs	P=0.156	P=0.221
CURR VS HC SAME RTE	P=0.415	
CURR VS HC ALL RTEs	P=0.200	

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:39
First Dose M/F: NA / NA
Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS

DOSE	MALE	
	7M	9M
All Organs		
Benign Tumors		
TUMOR RATES	#	#
OVERALL(a)	2/60 (3%)	2/64 (3%)
POLY-3 RATE (b)	2/56.42	2/62.69
POLY-3 PERCENT (g)	3.5%	3.2%
TERMINAL (d)	2/53 (4%)	2/58 (3%)
FIRST INCIDENCE	637(T)	637(T)
HC TUMORS SAME ROUTE	291/502 (58%)	
HC TUMORS ALL ROUTES	870/1541 (56%)	
STATISTICAL TESTS		
POLY 3	P=0.655N	P=0.655N
POLY 1.5	P=0.659N	P=0.659N
POLY 6	P=0.652N	P=0.652N
COCH-ARM / FISHERS	P=0.671N	P=0.666N
MAX-ISO-POLY-3	P=0.459N	P=0.459N
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTES	(h)	(h)
CURR VS HC SAME RTE	P=0.000**	
CURR VS HC ALL RTES	P=0.000**	

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:39
First Dose M/F: NA / NA
Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 105 WEEKS

DOSE	7M	9M
MALE		
All Organs		
Hemangiosarcoma		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	0/49 (0%)	1/56 (2%)
POLY-3 RATE (b)	0/45.63	1/53.17
POLY-3 PERCENT (g)	0%	1.9%
TERMINAL (d)	0/36 (0%)	1/45 (2%)
FIRST INCIDENCE	---	734(T)
HC TUMORS SAME ROUTE	33/502 (7%)	
HC TUMORS ALL ROUTES	80/1541 (5%)	
<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	(n)	(n)
HISTCONT ALL RTEs	(n)	(n)
CURR VS HC SAME RTE	(n)	
CURR VS HC ALL RTEs	(n)	

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: NTP 90 diet study
 CAS Number: DIET90

Date Report Requested: 10/21/2014
 Time Report Requested: 22:04:39
 First Dose M/F: NA / NA
 Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 105 WEEKS

DOSE	MALE	
	7M	9M
All Organs		
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type		
TUMOR RATES	#	#
OVERALL(a)	3/60 (5%)	5/64 (8%)
POLY-3 RATE (b)	3/56.42	5/62.69
POLY-3 PERCENT (g)	5.3%	8%
TERMINAL (d)	3/53 (6%)	5/58 (9%)
FIRST INCIDENCE	637(T)	637(T)
HC TUMORS SAME ROUTE	33/502 (7%)	
HC TUMORS ALL ROUTES	92/1541 (6%)	
STATISTICAL TESTS		
POLY 3	P=0.417	P=0.417
POLY 1.5	P=0.410	P=0.410
POLY 6	P=0.420	P=0.420
COCH-ARM / FISHERS	P=0.393	P=0.395
MAX-ISO-POLY-3	P=0.289	P=0.289
HISTCONT SAME RTE	P=0.361	P=0.461
HISTCONT ALL RTES	P=0.281	P=0.377
CURR VS HC SAME RTE	P=0.678	
CURR VS HC ALL RTES	P=0.745	

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: NTP 90 diet study
 CAS Number: DIET90

Date Report Requested: 10/21/2014
 Time Report Requested: 22:04:39
 First Dose M/F: NA / NA
 Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 105 WEEKS

DOSE	MALE	
	7M	9M
All Organs		
Malignant Tumors		
TUMOR RATES	#	#
OVERALL(a)	23/60 (38%)	36/64 (56%)
POLY-3 RATE (b)	23/57.23	36/63.47
POLY-3 PERCENT (g)	40.2%	56.7%
TERMINAL (d)	21/53 (40%)	33/58 (57%)
FIRST INCIDENCE	471	489
HC TUMORS SAME ROUTE	194/502 (39%)	
HC TUMORS ALL ROUTES	663/1541 (43%)	
STATISTICAL TESTS		
POLY 3	P=0.050*	P=0.050*
POLY 1.5	P=0.044*	P=0.044*
POLY 6	P=0.053	P=0.053
COCH-ARM / FISHERS	P=0.035*	P=0.034*
MAX-ISO-POLY-3	P=0.039*	P=0.039*
HISTCONT SAME RTE	P<0.001**	P=0.004**
HISTCONT ALL RTEs	P=0.066	P=0.112
CURR VS HC SAME RTE	P=0.903	
CURR VS HC ALL RTEs	P=0.529	

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: NTP 90 diet study
 CAS Number: DIET90

Date Report Requested: 10/21/2014
 Time Report Requested: 22:04:39
 First Dose M/F: NA / NA
 Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 105 WEEKS

DOSE	MALE	
	7M	9M
All Organs		
Malignant and Benign Tumors		
TUMOR RATES	#	#
OVERALL(a)	26/60 (43%)	18/64 (28%)
POLY-3 RATE (b)	26/58.54	18/63.01
POLY-3 PERCENT (g)	44.4%	28.6%
TERMINAL (d)	21/53 (40%)	16/58 (28%)
FIRST INCIDENCE	287	577
HC TUMORS SAME ROUTE	385/502 (77%)	
HC TUMORS ALL ROUTES	1189/1541 (77%)	
STATISTICAL TESTS		
POLY 3	P=0.051N	P=0.051N
POLY 1.5	P=0.051N	P=0.051N
POLY 6	P=0.052N	P=0.052N
COCH-ARM / FISHERS	P=0.057N	P=0.057N
MAX-ISO-POLY-3	P=0.037N*	P=0.037N*
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.000**	
CURR VS HC ALL RTEs	P=0.000**	

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:39
First Dose M/F: NA / NA
Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS

FEMALE		
DOSE	7F	9F
Harderian Gland		
Adenoma		
TUMOR RATES	#	#
OVERALL(a)	1/62 (2%)	4/66 (6%)
POLY-3 RATE (b)	1/59.91	4/62.40
POLY-3 PERCENT (g)	1.7%	6.4%
TERMINAL (d)	1/54 (2%)	4/58 (7%)
FIRST INCIDENCE	653(T)	653(T)
HC TUMORS SAME ROUTE	18/503 (4%)	
HC TUMORS ALL ROUTES	65/1701 (4%)	
STATISTICAL TESTS		
POLY 3	P=0.193	P=0.193
POLY 1.5	P=0.193	P=0.193
POLY 6	P=0.194	P=0.194
COCH-ARM / FISHERS	P=0.200	P=0.203
MAX-ISO-POLY-3	P=0.095	P=0.095
HISTCONT SAME RTE	P=0.187	P=0.265
HISTCONT ALL RTEs	P=0.227	P=0.299
CURR VS HC SAME RTE	P=0.401	
CURR VS HC ALL RTEs	P=0.326	

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:39
First Dose M/F: NA / NA
Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS

FEMALE		
DOSE	7F	9F
Harderian Gland		
Carcinoma or Adenoma		
TUMOR RATES		
	#	#
OVERALL(a)	1/62 (2%)	4/66 (6%)
POLY-3 RATE (b)	1/59.91	4/62.40
POLY-3 PERCENT (g)	1.7%	6.4%
TERMINAL (d)	1/54 (2%)	4/58 (7%)
FIRST INCIDENCE	653(T)	653(T)
HC TUMORS SAME ROUTE	23/503 (5%)	
HC TUMORS ALL ROUTES	86/1701 (5%)	
STATISTICAL TESTS		
POLY 3	P=0.193	P=0.193
POLY 1.5	P=0.193	P=0.193
POLY 6	P=0.194	P=0.194
COCH-ARM / FISHERS	P=0.200	P=0.203
MAX-ISO-POLY-3	P=0.095	P=0.095
HISTCONT SAME RTE	P=0.297	P=0.405
HISTCONT ALL RTEs	P=0.394	P=0.490
CURR VS HC SAME RTE	P=0.256	
CURR VS HC ALL RTEs	P=0.186	

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: NTP 90 diet study
 CAS Number: DIET90

Date Report Requested: 10/21/2014
 Time Report Requested: 22:04:39
 First Dose M/F: NA / NA
 Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 106 WEEKS

DOSE	FEMALE	
	7F	9F
Islets, Pancreatic Carcinoma or Adenoma		
TUMOR RATES		
OVERALL(a)	1/53 (2%)	2/58 (3%)
POLY-3 RATE (b)	1/52.14	2/55.13
POLY-3 PERCENT (g)	1.9%	3.6%
TERMINAL (d)	1/51 (2%)	2/54 (4%)
FIRST INCIDENCE	653(T)	653(T)
HC TUMORS SAME ROUTE	8/499 (2%)	
HC TUMORS ALL ROUTES	15/1627 (1%)	
STATISTICAL TESTS		
POLY 3	P=0.519	P=0.519
POLY 1.5	P=0.520	P=0.520
POLY 6	P=0.518	P=0.518
COCH-ARM / FISHERS	P=0.532	P=0.534
MAX-ISO-POLY-3	P=0.298	P=0.298
HISTCONT SAME RTE	P=0.156	P=0.300
HISTCONT ALL RTEs	P=0.020*	P=0.069
CURR VS HC SAME RTE	P=0.910	
CURR VS HC ALL RTEs	P=0.508	

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: NTP 90 diet study
 CAS Number: DIET90

Date Report Requested: 10/21/2014
 Time Report Requested: 22:04:39
 First Dose M/F: NA / NA
 Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 106 WEEKS

DOSE	FEMALE	
	7F	9F
Liver		
Hemangiosarcoma		
TUMOR RATES		
OVERALL(a)	2/60 (3%)	2/62 (3%)
POLY-3 RATE (b)	2/58.28	2/58.78
POLY-3 PERCENT (g)	3.4%	3.4%
TERMINAL (d)	2/54 (4%)	2/56 (4%)
FIRST INCIDENCE	653	653(T)
HC TUMORS SAME ROUTE	3/502 (1%)	
HC TUMORS ALL ROUTES	14/1696 (1%)	
STATISTICAL TESTS		
POLY 3	P=0.690N	P=0.690N
POLY 1.5	P=0.691N	P=0.691N
POLY 6	P=0.689N	P=0.689N
COCH-ARM / FISHERS	P=0.683N	P=0.678N
MAX-ISO-POLY-3	P=0.497N	P=0.497N
HISTCONT SAME RTE	P=0.014*	P=0.058
HISTCONT ALL RTEs	P=0.043*	P=0.106
CURR VS HC SAME RTE	P=0.033*	
CURR VS HC ALL RTEs	P=0.051	

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:39
First Dose M/F: NA / NA
Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS

DOSE	FEMALE	
	7F	9F
Liver		
Hepatocellular Adenoma		
TUMOR RATES		
OVERALL(a)	27/60 (45%)	17/62 (27%)
POLY-3 RATE (b)	27/58.68	17/58.78
POLY-3 PERCENT (g)	46%	28.9%
TERMINAL (d)	25/54 (46%)	17/56 (30%)
FIRST INCIDENCE	588	653(T)
HC TUMORS SAME ROUTE	131/502 (26%)	
HC TUMORS ALL ROUTES	546/1696 (32%)	
STATISTICAL TESTS		
POLY 3	P=0.041N*	P=0.041N*
POLY 1.5	P=0.041N*	P=0.041N*
POLY 6	P=0.041N*	P=0.041N*
COCH-ARM / FISHERS	P=0.033N*	P=0.033N*
MAX-ISO-POLY-3	P=0.028N*	P=0.028N*
HISTCONT SAME RTE	P=0.455	P=0.490
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.008**	
CURR VS HC ALL RTEs	P=0.085	

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:39
First Dose M/F: NA / NA
Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS

DOSE	7F	9F
FEMALE		
Liver		
Hepatocellular Carcinoma		
TUMOR RATES		
OVERALL(a)	8/60 (13%)	8/62 (13%)
POLY-3 RATE (b)	8/58.78	8/59.10
POLY-3 PERCENT (g)	13.6%	13.5%
TERMINAL (d)	6/54 (11%)	7/56 (12%)
FIRST INCIDENCE	560	574
HC TUMORS SAME ROUTE	66/502 (13%)	
HC TUMORS ALL ROUTES	281/1696 (17%)	
STATISTICAL TESTS		
POLY 3	P=0.601N	P=0.601N
POLY 1.5	P=0.601N	P=0.601N
POLY 6	P=0.599N	P=0.599N
COCH-ARM / FISHERS	P=0.578N	P=0.578N
MAX-ISO-POLY-3	P=0.496N	P=0.496N
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.941	
CURR VS HC ALL RTEs	P=0.388	

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:39
First Dose M/F: NA / NA
Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS

DOSE	7F	9F
FEMALE		
<hr/>		
Liver		
Hepatocellular Carcinoma or Hepatoblastoma		
<hr/>		
TUMOR RATES		
OVERALL(a)	8/60 (13%)	8/62 (13%)
POLY-3 RATE (b)	8/58.78	8/59.10
POLY-3 PERCENT (g)	13.6%	13.5%
TERMINAL (d)	6/54 (11%)	7/56 (12%)
FIRST INCIDENCE	560	574
HC TUMORS SAME ROUTE	66/502 (13%)	
HC TUMORS ALL ROUTES	282/1696 (17%)	
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.601N	P=0.601N
POLY 1.5	P=0.601N	P=0.601N
POLY 6	P=0.599N	P=0.599N
COCH-ARM / FISHERS	P=0.578N	P=0.578N
MAX-ISO-POLY-3	P=0.496N	P=0.496N
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.941	
CURR VS HC ALL RTEs	P=0.382	

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: NTP 90 diet study
 CAS Number: DIET90

Date Report Requested: 10/21/2014
 Time Report Requested: 22:04:39
 First Dose M/F: NA / NA
 Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 106 WEEKS

FEMALE		
DOSE	7F	9F
Liver		
Hepatocellular Carcinoma or Hepatocellular Adenoma		
TUMOR RATES		
OVERALL(a)	34/60 (57%)	24/62 (39%)
POLY-3 RATE (b)	34/59.18	24/59.10
POLY-3 PERCENT (g)	57.5%	40.6%
TERMINAL (d)	30/54 (56%)	23/56 (41%)
FIRST INCIDENCE	560	574
HC TUMORS SAME ROUTE	181/502 (36%)	
HC TUMORS ALL ROUTES	726/1696 (43%)	
STATISTICAL TESTS		
POLY 3	P=0.048N*	P=0.048N*
POLY 1.5	P=0.047N*	P=0.047N*
POLY 6	P=0.050N*	P=0.050N*
COCH-ARM / FISHERS	P=0.036N*	P=0.035N*
MAX-ISO-POLY-3	P=0.034N*	P=0.034N*
HISTCONT SAME RTE	P=0.392	P=0.424
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.005**	
CURR VS HC ALL RTEs	P=0.084	

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: NTP 90 diet study
 CAS Number: DIET90

Date Report Requested: 10/21/2014
 Time Report Requested: 22:04:39
 First Dose M/F: NA / NA
 Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 106 WEEKS

DOSE	FEMALE	
	7F	9F
Liver		
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma		
TUMOR RATES		
OVERALL(a)	34/60 (57%)	24/62 (39%)
POLY-3 RATE (b)	34/59.18	24/59.10
POLY-3 PERCENT (g)	57.5%	40.6%
TERMINAL (d)	30/54 (56%)	23/56 (41%)
FIRST INCIDENCE	560	574
HC TUMORS SAME ROUTE	181/502 (36%)	
HC TUMORS ALL ROUTES	726/1696 (43%)	
STATISTICAL TESTS		
POLY 3	P=0.048N*	P=0.048N*
POLY 1.5	P=0.047N*	P=0.047N*
POLY 6	P=0.050N*	P=0.050N*
COCH-ARM / FISHERS	P=0.036N*	P=0.035N*
MAX-ISO-POLY-3	P=0.034N*	P=0.034N*
HISTCONT SAME RTE	P=0.392	P=0.424
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.005**	
CURR VS HC ALL RTEs	P=0.084	

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:39
First Dose M/F: NA / NA
Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS

DOSE	FEMALE	
	7F	9F
Lung		
Alveolar/Bronchiolar Adenoma		
TUMOR RATES		
OVERALL(a)	4/60 (7%)	6/64 (9%)
POLY-3 RATE (b)	4/58.55	6/60.81
POLY-3 PERCENT (g)	6.8%	9.9%
TERMINAL (d)	3/54 (6%)	4/57 (7%)
FIRST INCIDENCE	588	561
HC TUMORS SAME ROUTE	23/502 (5%)	
HC TUMORS ALL ROUTES	91/1696 (5%)	
STATISTICAL TESTS		
POLY 3	P=0.395	P=0.395
POLY 1.5	P=0.395	P=0.395
POLY 6	P=0.396	P=0.396
COCH-ARM / FISHERS	P=0.412	P=0.413
MAX-ISO-POLY-3	P=0.277	P=0.277
HISTCONT SAME RTE	P=0.014*	P=0.037*
HISTCONT ALL RTEs	P=0.055	P=0.098
CURR VS HC SAME RTE	P=0.511	
CURR VS HC ALL RTEs	P=0.747	

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:39
First Dose M/F: NA / NA
Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS

FEMALE		
DOSE	7F	9F
Lung		
Alveolar/Bronchiolar Carcinoma		
TUMOR RATES		
OVERALL(a)	1/60 (2%)	3/64 (5%)
POLY-3 RATE (b)	1/59.01	3/60.42
POLY-3 PERCENT (g)	1.7%	5%
TERMINAL (d)	0/54 (0%)	3/57 (5%)
FIRST INCIDENCE	421	653(T)
HC TUMORS SAME ROUTE	14/502 (3%)	
HC TUMORS ALL ROUTES	58/1696 (3%)	
STATISTICAL TESTS		
POLY 3	P=0.315	P=0.315
POLY 1.5	P=0.317	P=0.317
POLY 6	P=0.313	P=0.313
COCH-ARM / FISHERS	P=0.329	P=0.334
MAX-ISO-POLY-3	P=0.163	P=0.163
HISTCONT SAME RTE	P=0.250	P=0.348
HISTCONT ALL RTEs	P=0.319	P=0.435
CURR VS HC SAME RTE	P=0.581	
CURR VS HC ALL RTEs	P=0.399	

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:39
First Dose M/F: NA / NA
Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS

FEMALE		
DOSE	7F	9F
Lung		
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma		
TUMOR RATES		
OVERALL(a)	5/60 (8%)	9/64 (14%)
POLY-3 RATE (b)	5/59.28	9/60.81
POLY-3 PERCENT (g)	8.4%	14.8%
TERMINAL (d)	3/54 (6%)	7/57 (12%)
FIRST INCIDENCE	421	561
HC TUMORS SAME ROUTE	35/502 (7%)	
HC TUMORS ALL ROUTES	145/1696 (9%)	
STATISTICAL TESTS		
POLY 3	P=0.212	P=0.212
POLY 1.5	P=0.214	P=0.214
POLY 6	P=0.210	P=0.210
COCH-ARM / FISHERS	P=0.235	P=0.236
MAX-ISO-POLY-3	P=0.141	P=0.141
HISTCONT SAME RTE	P=0.018*	P=0.044*
HISTCONT ALL RTEs	P=0.034*	P=0.070
CURR VS HC SAME RTE	P=0.783	
CURR VS HC ALL RTEs	P=0.808	

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: NTP 90 diet study
 CAS Number: DIET90

Date Report Requested: 10/21/2014
 Time Report Requested: 22:04:39
 First Dose M/F: NA / NA
 Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 106 WEEKS

DOSE	FEMALE	
	7F	9F
Ovary		
Cystadenoma		
TUMOR RATES		
OVERALL(a)	3/52 (6%)	7/59 (12%)
POLY-3 RATE (b)	3/51.00	7/56.81
POLY-3 PERCENT (g)	5.9%	12.3%
TERMINAL (d)	3/49 (6%)	7/55 (13%)
FIRST INCIDENCE	653(T)	653(T)
HC TUMORS SAME ROUTE	5/493 (1%)	
HC TUMORS ALL ROUTES	53/1667 (3%)	
STATISTICAL TESTS		
POLY 3	P=0.207	P=0.207
POLY 1.5	P=0.209	P=0.209
POLY 6	P=0.205	P=0.205
COCH-ARM / FISHERS	P=0.216	P=0.217
MAX-ISO-POLY-3	P=0.131	P=0.131
HISTCONT SAME RTE	P=0.000**	P<0.001**
HISTCONT ALL RTEs	P=0.000**	P=0.002**
CURR VS HC SAME RTE	P=0.008**	
CURR VS HC ALL RTEs	P=0.346	

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: NTP 90 diet study
 CAS Number: DIET90

Date Report Requested: 10/21/2014
 Time Report Requested: 22:04:39
 First Dose M/F: NA / NA
 Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 106 WEEKS

DOSE	FEMALE	
	7F	9F
Pituitary Gland: Pars Distalis or Unspecified Site		
Adenoma		
TUMOR RATES	#	#
OVERALL(a)	8/47 (17%)	2/52 (4%)
POLY-3 RATE (b)	8/45.87	2/49.09
POLY-3 PERCENT (g)	17.4%	4.1%
TERMINAL (d)	8/44 (18%)	2/46 (4%)
FIRST INCIDENCE	653(T)	653(T)
HC TUMORS SAME ROUTE	60/484 (12%)	
HC TUMORS ALL ROUTES	240/1618 (15%)	
STATISTICAL TESTS		
POLY 3	P=0.035N*	P=0.035N*
POLY 1.5	P=0.035N*	P=0.035N*
POLY 6	P=0.035N*	P=0.035N*
COCH-ARM / FISHERS	P=0.033N*	P=0.032N*
MAX-ISO-POLY-3	P=0.017N*	P=0.017N*
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.417	
CURR VS HC ALL RTEs	P=0.797	

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:39
First Dose M/F: NA / NA
Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS

FEMALE		
DOSE	7F	9F
Skin		
Sarcoma		
TUMOR RATES	#	#
OVERALL(a)	2/62 (3%)	3/66 (5%)
POLY-3 RATE (b)	2/59.91	3/62.73
POLY-3 PERCENT (g)	3.3%	4.8%
TERMINAL (d)	2/54 (4%)	2/58 (3%)
FIRST INCIDENCE	653(T)	574
HC TUMORS SAME ROUTE	4/503 (1%)	
HC TUMORS ALL ROUTES	21/1701 (1%)	
STATISTICAL TESTS		
POLY 3	P=0.521	P=0.521
POLY 1.5	P=0.519	P=0.519
POLY 6	P=0.524	P=0.524
COCH-ARM / FISHERS	P=0.528	P=0.530
MAX-ISO-POLY-3	P=0.345	P=0.345
HISTCONT SAME RTE	P=0.011*	P=0.030*
HISTCONT ALL RTEs	P=0.050*	P=0.091
CURR VS HC SAME RTE	P=0.087	
CURR VS HC ALL RTEs	P=0.197	

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: NTP 90 diet study
 CAS Number: DIET90

Date Report Requested: 10/21/2014
 Time Report Requested: 22:04:39
 First Dose M/F: NA / NA
 Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 106 WEEKS

DOSE	FEMALE	
	7F	9F
Skin		
Schwannoma Malignant		
TUMOR RATES	#	#
OVERALL(a)	2/62 (3%)	0/66 (0%)
POLY-3 RATE (b)	2/59.91	0/62.40
POLY-3 PERCENT (g)	3.3%	0%
TERMINAL (d)	2/54 (4%)	0/58 (0%)
FIRST INCIDENCE	653(T)	---
HC TUMORS SAME ROUTE	1/503 (0%)	
HC TUMORS ALL ROUTES	2/1701 (0%)	
STATISTICAL TESTS		
POLY 3	P=0.229N	P=0.229N
POLY 1.5	P=0.229N	P=0.229N
POLY 6	P=0.228N	P=0.228N
COCH-ARM / FISHERS	P=0.224N	P=0.233N
MAX-ISO-POLY-3	P=0.074N	P=0.074N
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTES	(h)	(h)
CURR VS HC SAME RTE	P=0.002**	
CURR VS HC ALL RTES	P=0.000**	

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: NTP 90 diet study
 CAS Number: DIET90

Date Report Requested: 10/21/2014
 Time Report Requested: 22:04:39
 First Dose M/F: NA / NA
 Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 106 WEEKS

DOSE	FEMALE	
	7F	9F
Spleen		
Hemangiosarcoma		
TUMOR RATES		
OVERALL(a)	2/55 (4%)	1/61 (2%)
POLY-3 RATE (b)	2/54.05	1/58.78
POLY-3 PERCENT (g)	3.7%	1.7%
TERMINAL (d)	2/52 (4%)	0/55 (0%)
FIRST INCIDENCE	653(T)	121
HC TUMORS SAME ROUTE	8/501 (2%)	
HC TUMORS ALL ROUTES	22/1685 (1%)	
STATISTICAL TESTS		
POLY 3	P=0.471N	P=0.471N
POLY 1.5	P=0.470N	P=0.470N
POLY 6	P=0.473N	P=0.473N
COCH-ARM / FISHERS	P=0.464N	P=0.461N
MAX-ISO-POLY-3	P=0.259N	P=0.259N
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	P=0.435	P=1.000
CURR VS HC SAME RTE	P=0.316	
CURR VS HC ALL RTEs	P=0.164	

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:39
First Dose M/F: NA / NA
Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS

FEMALE		
DOSE	7F	9F
Thyroid Gland: Follicular Cell		
Adenoma		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	2/54 (4%)	2/60 (3%)
POLY-3 RATE (b)	2/53.55	2/56.81
POLY-3 PERCENT (g)	3.7%	3.5%
TERMINAL (d)	2/52 (4%)	2/55 (4%)
FIRST INCIDENCE	653(T)	653(T)
HC TUMORS SAME ROUTE	7/499 (1%)	
HC TUMORS ALL ROUTES	82/1687 (5%)	
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.672N	P=0.672N
POLY 1.5	P=0.670N	P=0.670N
POLY 6	P=0.674N	P=0.674N
COCH-ARM / FISHERS	P=0.656N	P=0.650N
MAX-ISO-POLY-3	P=0.476N	P=0.476N
HISTCONT SAME RTE	P=0.146	P=0.278
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.231	
CURR VS HC ALL RTEs	P=0.603	

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:39
First Dose M/F: NA / NA
Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS

DOSE	7F	9F
FEMALE		
All Organs		
Benign Tumors		
TUMOR RATES	#	#
OVERALL(a)	34/62 (55%)	32/66 (48%)
POLY-3 RATE (b)	34/60.31	32/62.79
POLY-3 PERCENT (g)	56.4%	51%
TERMINAL (d)	32/54 (59%)	30/58 (52%)
FIRST INCIDENCE	588	561
HC TUMORS SAME ROUTE	253/503 (50%)	
HC TUMORS ALL ROUTES	937/1701 (55%)	
STATISTICAL TESTS		
POLY 3	P=0.337N	P=0.337N
POLY 1.5	P=0.341N	P=0.341N
POLY 6	P=0.328N	P=0.328N
COCH-ARM / FISHERS	P=0.294N	P=0.294N
MAX-ISO-POLY-3	P=0.274N	P=0.274N
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.608	
CURR VS HC ALL RTEs	P=0.646	

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: NTP 90 diet study
 CAS Number: DIET90

Date Report Requested: 10/21/2014
 Time Report Requested: 22:04:39
 First Dose M/F: NA / NA
 Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 106 WEEKS

DOSE	FEMALE	
	7F	9F
All Organs		
Hemangiosarcoma		
TUMOR RATES	#	#
OVERALL(a)	4/62 (6%)	3/66 (5%)
POLY-3 RATE (b)	4/59.91	3/63.40
POLY-3 PERCENT (g)	6.7%	4.7%
TERMINAL (d)	4/54 (7%)	2/58 (3%)
FIRST INCIDENCE	653(T)	121
HC TUMORS SAME ROUTE	17/503 (3%)	
HC TUMORS ALL ROUTES	58/1701 (3%)	
STATISTICAL TESTS		
POLY 3	P=0.469N	P=0.469N
POLY 1.5	P=0.471N	P=0.471N
POLY 6	P=0.467N	P=0.467N
COCH-ARM / FISHERS	P=0.466N	P=0.465N
MAX-ISO-POLY-3	P=0.323N	P=0.323N
HISTCONT SAME RTE	P=0.345	P=0.464
HISTCONT ALL RTEs	P=0.359	P=0.468
CURR VS HC SAME RTE	P=0.258	
CURR VS HC ALL RTEs	P=0.233	

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: NTP 90 diet study
 CAS Number: DIET90

Date Report Requested: 10/21/2014
 Time Report Requested: 22:04:39
 First Dose M/F: NA / NA
 Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 106 WEEKS

DOSE	FEMALE	
	7F	9F
All Organs		
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type		
TUMOR RATES	#	#
OVERALL(a)	2/62 (3%)	9/66 (14%)
POLY-3 RATE (b)	2/59.91	9/63.40
POLY-3 PERCENT (g)	3.3%	14.2%
TERMINAL (d)	2/54 (4%)	8/58 (14%)
FIRST INCIDENCE	653(T)	121
HC TUMORS SAME ROUTE	79/503 (16%)	
HC TUMORS ALL ROUTES	257/1701 (15%)	
STATISTICAL TESTS		
POLY 3	P=0.035*	P=0.035*
POLY 1.5	P=0.034*	P=0.034*
POLY 6	P=0.035*	P=0.035*
COCH-ARM / FISHERS	P=0.037*	P=0.035*
MAX-ISO-POLY-3	P=0.018*	P=0.018*
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.011*	
CURR VS HC ALL RTEs	P=0.006**	

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 Test Compound: NTP 90 diet study
 CAS Number: DIET90

Date Report Requested: 10/21/2014
 Time Report Requested: 22:04:39
 First Dose M/F: NA / NA
 Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 106 WEEKS

DOSE	FEMALE	
	7F	9F
All Organs		
Malignant Tumors		
TUMOR RATES	#	#
OVERALL(a)	17/62 (27%)	27/66 (41%)
POLY-3 RATE (b)	17/61.14	27/64.61
POLY-3 PERCENT (g)	27.8%	41.8%
TERMINAL (d)	14/54 (26%)	22/58 (38%)
FIRST INCIDENCE	421	121
HC TUMORS SAME ROUTE	199/503 (40%)	
HC TUMORS ALL ROUTES	768/1701 (45%)	
STATISTICAL TESTS		
POLY 3	P=0.072	P=0.072
POLY 1.5	P=0.070	P=0.070
POLY 6	P=0.075	P=0.075
COCH-ARM / FISHERS	P=0.078	P=0.078
MAX-ISO-POLY-3	P=0.052	P=0.052
HISTCONT SAME RTE	P=0.465	P=1.000
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.040*	
CURR VS HC ALL RTEs	P=0.002**	

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:04:39
First Dose M/F: NA / NA
Lab: NIEHS

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MOUSE(B6C3F1)
LAST REMOVAL AT 106 WEEKS

DOSE	7F	9F
FEMALE		
All Organs		
Malignant and Benign Tumors		
TUMOR RATES	#	#
OVERALL(a)	45/62 (73%)	53/66 (80%)
POLY-3 RATE (b)	45/61.54	53/65.00
POLY-3 PERCENT (g)	73.1%	81.5%
TERMINAL (d)	40/54 (74%)	46/58 (79%)
FIRST INCIDENCE	421	121
HC TUMORS SAME ROUTE	361/503 (72%)	
HC TUMORS ALL ROUTES	1302/1701 (77%)	
STATISTICAL TESTS		
POLY 3	P=0.178	P=0.178
POLY 1.5	P=0.172	P=0.172
POLY 6	P=0.192	P=0.192
COCH-ARM / FISHERS	P=0.206	P=0.206
MAX-ISO-POLY-3	P=0.132	P=0.132
HISTCONT SAME RTE	P=0.031*	P=0.064
HISTCONT ALL RTEs	P=0.429	P=0.465
CURR VS HC SAME RTE	P=0.902	
CURR VS HC ALL RTEs	P=0.165	

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: NTP 90 diet study
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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 ****