

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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
**Test Compound:** NTP 91/92 diet study  
**CAS Number:** DIET9192

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 18:28:41  
**First Dose M/F:** NA / NA  
**Lab:** NIEHS

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

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**HISTORICAL CONTROL STUDIES**

**From October 1996 report**

**SAME ROUTE**

- 05094-02 -- Butyl benzyl phthalate (ORAL FEED)
- 05103-05 -- 2,2-bis(Bromomethyl)-1,3-propanediol (ORAL FEED)
- 05128-06 -- D & C yellow no. 11 (ORAL FEED)
- 05155-03 -- p-Nitrobenzoic acid (ORAL FEED)
- 05182-03 -- Phenolphthalein (ORAL FEED)
- 05212-05 -- Oxazepam (ORAL FEED)

**ALL ROUTES**

- 05067-09 -- Theophylline (GAVAGE CORN OIL)
- 05069-08 -- 1,2-Dihydro-2,2,4-trimethylquinoline (monomer) (SKIN ACETONE)
- 05094-02 -- Butyl benzyl phthalate (ORAL FEED)
- 05099-07 -- Salicylazosulfapyridine (GAVAGE CORN OIL)
- 05102-05 -- Benzethonium chloride (SKIN ETHANOL)
- 05103-05 -- 2,2-bis(Bromomethyl)-1,3-propanediol (ORAL FEED)
- 05107-05 -- Nickel subsulfide (INHALATION )
- 05109-11 -- Triethanolamine (SKIN ACETONE)
- 05121-05 -- Scopolamine hydrobromide trihydrate (GAVAGE WATER)
- 05122-05 -- Nickel sulfate hexahydrate (INHALATION )
- 05123-05 -- Nickel (II) oxide (INHALATION )
- 05128-06 -- D & C yellow no. 11 (ORAL FEED)
- 05132-05 -- Tetrafluoroethylene (INHALATION AIR)
- 05133-03 -- Acetonitrile (INHALATION AIR)
- 05155-03 -- p-Nitrobenzoic acid (ORAL FEED)
- 05156-05 -- Cobalt sulfate heptahydrate (INHALATION AIR)
- 05158-03 -- Molybdenum trioxide (INHALATION AIR)
- 05181-03 -- Tetrahydrofuran (INHALATION AIR)
- 05182-03 -- Phenolphthalein (ORAL FEED)
- 05185-03 -- Isobutyl nitrite (INHALATION AIR)
- 05188-05 -- Sodium xylenesulfonate (SKIN ETHANOL)
- 05200-05 -- Nitromethane (INHALATION AIR)
- 05210-03 -- Ethylbenzene (INHALATION AIR)

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**HISTORICAL CONTROL STUDIES**

**From October 1996 report**

05212-05 -- Oxazepam (ORAL FEED)

05214-01 -- 1-trans-delta-9-Tetrahydrocannabinol (GAVAGE CORN OIL)

60968-01 -- Isobutyraldehyde (INHALATION AIR)

88034-03 -- Ozone (INHALATION AIR)

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**Lab:** NIEHS

**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.**

Adrenal Medulla  
Clitoral/Preputial Gland  
Heart  
Islets, Pancreatic  
Liver  
Lung  
Ovary  
Pituitary Gland  
Testes  
Thymus  
Thyroid Gland

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**Lab:** NIEHS

**SUMMARY OF STATISTICALLY SIGNIFICANT ( $P \leq .05$ ) RESULTS IN THE ANALYSIS OF NTP 91/92 DIET STUDY**

**MALE RAT**

**Organ**

Adrenal Medulla

Liver

Mammary Gland

Skin

Testes

Thyroid Gland: C-Cell

All Organs

**FEMALE RAT**

**Organ**

Clitoral/Preputial Gland

Pituitary Gland: Pars Distalis or Unspecified Site

All Organs

**Morphology**

Pheochromocytoma Benign

Pheochromocytoma: Benign, Complex, Malignant, NOS

Hepatocellular Adenoma

Hepatocellular Carcinoma or Hepatocellular Adenoma

Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma

Carcinoma or Adenoma

Fibroma, Fibroadenoma, Carcinoma, or Adenoma

Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma

Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma

Adenoma

Adenoma

Carcinoma or Adenoma

Leukemia: Lymphocytic, Monocytic, Mononuclear or Undifferentiated

**Morphology**

Carcinoma

Adenoma

Carcinoma or Adenoma

Malignant Tumors

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First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>Adrenal Medulla</b>			
<b>Pheochromocytoma Benign</b>			
<b>TUMOR RATES</b>			
OVERALL(a)	17/56 (30%)	12/60 (20%)	7/56 (12%)
POLY-3 RATE (b)	17/54.97	12/58.11	7/53.99
POLY-3 PERCENT (g)	30.9%	20.7%	13%
TERMINAL (d)	16/52 (31%)	11/54 (20%)	7/49 (14%)
FIRST INCIDENCE	450	482	561(T)
HC TUMORS SAME ROUTE	66/350 (19%)		
HC TUMORS ALL ROUTES	329/1430 (23%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.029N*	P=0.150N	P=0.019N*
POLY 1.5	P=0.028N*	P=0.148N	P=0.019N*
POLY 6	P=0.030N*	P=0.151N	P=0.021N*
COCH-ARM / FISHERS	P=0.027N*	P=0.142N	P=0.018N*
MAX-ISO-POLY-3	P=0.018N*	P=0.108N	P=0.011N*
HISTCONT SAME RTE	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTEs	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.106		
CURR VS HC ALL RTEs	P=0.265		

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First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>Adrenal Medulla</b>			
<b>Pheochromocytoma: Benign, Complex, Malignant, NOS</b>			
<b>TUMOR RATES</b>			
OVERALL(a)	18/56 (32%)	12/60 (20%)	7/56 (12%)
POLY-3 RATE (b)	18/54.97	12/58.11	7/53.99
POLY-3 PERCENT (g)	32.7%	20.7%	13%
TERMINAL (d)	17/52 (33%)	11/54 (20%)	7/49 (14%)
FIRST INCIDENCE	450	482	561(T)
HC TUMORS SAME ROUTE	75/350 (21%)		
HC TUMORS ALL ROUTES	348/1430 (24%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.016N*	P=0.106N	P=0.011N*
POLY 1.5	P=0.015N*	P=0.105N	P=0.011N*
POLY 6	P=0.016N*	P=0.107N	P=0.012N*
COCH-ARM / FISHERS	P=0.015N*	P=0.100N	P=0.011N*
MAX-ISO-POLY-3	P=0.010N**	P=0.074N	P=0.007N**
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.135		
CURR VS HC ALL RTEs	P=0.242		

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First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>Clitoral/Preputial Gland</b>			
<b>Adenoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	4/5 (80%)	3/3 (100%)	2/3 (67%)
POLY-3 RATE (b)	4/5.00	3/3.00	2/3.00
POLY-3 PERCENT (g)	80%	100%	66.7%
TERMINAL (d)	3/4 (75%)	3/3 (100%)	1/2 (50%)
FIRST INCIDENCE	701	726(T)	540
HC TUMORS SAME ROUTE	30/347 (9%)		
HC TUMORS ALL ROUTES	60/1450 (4%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.720	P=0.599	P=0.644N
POLY 1.5	P=0.720	P=0.599	P=0.644N
POLY 6	P=0.720	P=0.599	P=0.644N
COCH-ARM / FISHERS	P=0.741	P=0.625	P=0.643N
MAX-ISO-POLY-3	P=0.398N	P=0.251	P=0.370N
HISTCONT SAME RTE	P=0.002**	P=0.005**	P=0.020*
HISTCONT ALL RTEs	P=0.000**	P=0.000**	P<0.001**
CURR VS HC SAME RTE	P=0.000**		
CURR VS HC ALL RTEs	P=0.000**		

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First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>Clitoral/Preputial Gland Carcinoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	0/5 (0%)	0/3 (0%)	0/3 (0%)
POLY-3 RATE (b)	0/4.90	0/3.00	0/2.41
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/4 (0%)	0/3 (0%)	0/2 (0%)
FIRST INCIDENCE	---	---	---
HC TUMORS SAME ROUTE	13/347 (4%)		
HC TUMORS ALL ROUTES	44/1450 (3%)		
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)
HISTCONT ALL RTEs	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)		
CURR VS HC ALL RTEs	(n)		

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First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>Clitoral/Preputial Gland Carcinoma or Adenoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	4/5 (80%)	3/3 (100%)	2/3 (67%)
POLY-3 RATE (b)	4/5.00	3/3.00	2/3.00
POLY-3 PERCENT (g)	80%	100%	66.7%
TERMINAL (d)	3/4 (75%)	3/3 (100%)	1/2 (50%)
FIRST INCIDENCE	701	726(T)	540
HC TUMORS SAME ROUTE	43/347 (12%)		
HC TUMORS ALL ROUTES	104/1450 (7%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.720	P=0.599	P=0.644N
POLY 1.5	P=0.720	P=0.599	P=0.644N
POLY 6	P=0.720	P=0.599	P=0.644N
COCH-ARM / FISHERS	P=0.741	P=0.625	P=0.643N
MAX-ISO-POLY-3	P=0.398N	P=0.251	P=0.370N
HISTCONT SAME RTE	P=0.004**	P=0.008**	P=0.039*
HISTCONT ALL RTEs	P=0.000**	P=0.000**	P=0.003**
CURR VS HC SAME RTE	P=0.000**		
CURR VS HC ALL RTEs	P=0.000**		

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First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>Clitoral/Preputial Gland</b>			
<b>Squamous Cell Papilloma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	0/5 (0%)	0/3 (0%)	1/3 (33%)
POLY-3 RATE (b)	0/4.90	0/3.00	1/2.41
POLY-3 PERCENT (g)	0%	0%	41.5%
TERMINAL (d)	0/4 (0%)	0/3 (0%)	1/2 (50%)
FIRST INCIDENCE	---	---	726(T)
HC TUMORS SAME ROUTE	1/347 (0%)		
HC TUMORS ALL ROUTES	1/1450 (0%)		
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)
HISTCONT ALL RTEs	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)		
CURR VS HC ALL RTEs	(n)		

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First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>Heart</b>			
<b>Schwannoma Malignant</b>			
<b>TUMOR RATES</b>			
OVERALL(a)	2/57 (4%)	2/60 (3%)	0/56 (0%)
POLY-3 RATE (b)	2/55.48	2/57.74	0/53.99
POLY-3 PERCENT (g)	3.6%	3.5%	0%
TERMINAL (d)	2/53 (4%)	2/54 (4%)	0/49 (0%)
FIRST INCIDENCE	561	561(T)	---
HC TUMORS SAME ROUTE	1/350 (0%)		
HC TUMORS ALL ROUTES	2/1458 (0%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.421N	P=0.679N	P=0.244N
POLY 1.5	P=0.419N	P=0.678N	P=0.243N
POLY 6	P=0.423N	P=0.679N	P=0.245N
COCH-ARM / FISHERS	P=0.417N	P=0.671N	P=0.252N
MAX-ISO-POLY-3	P=0.171N	P=0.484N	P=0.082N
HISTCONT SAME RTE	P=0.239	P=0.032*	P=1.000
HISTCONT ALL RTEs	P=0.008**	P=0.000**	P=1.000
CURR VS HC SAME RTE	P=0.009**		
CURR VS HC ALL RTEs	P=0.000**		

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First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>Islets, Pancreatic</b>			
<b>Adenoma</b>			
<b>TUMOR RATES</b>			
OVERALL(a)	5/56 (9%)	6/59 (10%)	1/52 (2%)
POLY-3 RATE (b)	5/54.84	6/56.76	1/51.10
POLY-3 PERCENT (g)	9.1%	10.6%	2%
TERMINAL (d)	5/53 (9%)	6/54 (11%)	1/47 (2%)
FIRST INCIDENCE	561(T)	561(T)	561
HC TUMORS SAME ROUTE	17/349 (5%)		
HC TUMORS ALL ROUTES	79/1418 (6%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.375N	P=0.524	P=0.120N
POLY 1.5	P=0.374N	P=0.528	P=0.120N
POLY 6	P=0.377N	P=0.521	P=0.120N
COCH-ARM / FISHERS	P=0.375N	P=0.537	P=0.121N
MAX-ISO-POLY-3	P=0.098N	P=0.399	P=0.058N
HISTCONT SAME RTE	P=0.520	P=0.041*	P=1.000
HISTCONT ALL RTEs	P=0.635	P=0.116	P=1.000
CURR VS HC SAME RTE	P=0.227		
CURR VS HC ALL RTEs	P=0.320		

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Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>Liver</b>			
<b>Hepatocellular Adenoma</b>			
<b>TUMOR RATES</b>			
OVERALL(a)	3/57 (5%)	1/60 (2%)	0/56 (0%)
POLY-3 RATE (b)	3/55.48	1/57.74	0/53.99
POLY-3 PERCENT (g)	5.4%	1.7%	0%
TERMINAL (d)	3/53 (6%)	1/54 (2%)	0/49 (0%)
FIRST INCIDENCE	561(T)	561	---
HC TUMORS SAME ROUTE	8/349 (2%)		
HC TUMORS ALL ROUTES	37/1457 (3%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.101N	P=0.292N	P=0.125N
POLY 1.5	P=0.101N	P=0.291N	P=0.124N
POLY 6	P=0.102N	P=0.292N	P=0.126N
COCH-ARM / FISHERS	P=0.100N	P=0.290N	P=0.125N
MAX-ISO-POLY-3	P=0.053N	P=0.148N	P=0.043N*
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.198		
CURR VS HC ALL RTEs	P=0.222		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

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First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>Liver</b>			
<b>Hepatocellular Carcinoma or Hepatocellular Adenoma</b>			
<b>TUMOR RATES</b>			
OVERALL(a)	4/57 (7%)	1/60 (2%)	0/56 (0%)
POLY-3 RATE (b)	4/55.48	1/57.74	0/53.99
POLY-3 PERCENT (g)	7.2%	1.7%	0%
TERMINAL (d)	4/53 (8%)	1/54 (2%)	0/49 (0%)
FIRST INCIDENCE	561(T)	561	---
HC TUMORS SAME ROUTE	12/349 (3%)		
HC TUMORS ALL ROUTES	53/1457 (4%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.036N*	P=0.168N	P=0.065N
POLY 1.5	P=0.036N*	P=0.167N	P=0.064N
POLY 6	P=0.036N*	P=0.168N	P=0.066N
COCH-ARM / FISHERS	P=0.036N*	P=0.166N	P=0.061N
MAX-ISO-POLY-3	P=0.022N*	P=0.080N	P=0.022N*
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.224		
CURR VS HC ALL RTEs	P=0.204		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:41

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>Liver</b>			
<b>Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma</b>			
<b>TUMOR RATES</b>			
OVERALL(a)	4/57 (7%)	1/60 (2%)	0/56 (0%)
POLY-3 RATE (b)	4/55.48	1/57.74	0/53.99
POLY-3 PERCENT (g)	7.2%	1.7%	0%
TERMINAL (d)	4/53 (8%)	1/54 (2%)	0/49 (0%)
FIRST INCIDENCE	561(T)	561	---
HC TUMORS SAME ROUTE	12/349 (3%)		
HC TUMORS ALL ROUTES	53/1457 (4%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.036N*	P=0.168N	P=0.065N
POLY 1.5	P=0.036N*	P=0.167N	P=0.064N
POLY 6	P=0.036N*	P=0.168N	P=0.066N
COCH-ARM / FISHERS	P=0.036N*	P=0.166N	P=0.061N
MAX-ISO-POLY-3	P=0.022N*	P=0.080N	P=0.022N*
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.224		
CURR VS HC ALL RTEs	P=0.204		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:41

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>Lung</b>			
<b>Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma</b>			
<b>TUMOR RATES</b>			
OVERALL(a)	2/57 (4%)	0/59 (0%)	2/56 (4%)
POLY-3 RATE (b)	2/55.97	0/56.76	2/53.99
POLY-3 PERCENT (g)	3.6%	0%	3.7%
TERMINAL (d)	1/53 (2%)	0/54 (0%)	2/49 (4%)
FIRST INCIDENCE	450	---	561(T)
HC TUMORS SAME ROUTE	13/350 (4%)		
HC TUMORS ALL ROUTES	36/1458 (2%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.437N	P=0.235N	P=0.680
POLY 1.5	P=0.434N	P=0.233N	P=0.683
POLY 6	P=0.439N	P=0.236N	P=0.676
COCH-ARM / FISHERS	P=0.429N	P=0.239N	P=0.684
MAX-ISO-POLY-3	P=0.374	P=0.076N	P=0.486
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTEs	P=0.524	P=1.000	P=0.478
CURR VS HC SAME RTE	P=0.912		
CURR VS HC ALL RTEs	P=0.657		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>Mammary Gland</b>			
<b>Carcinoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	2/57 (4%)	0/60 (0%)	0/56 (0%)
POLY-3 RATE (b)	2/55.48	0/57.74	0/53.99
POLY-3 PERCENT (g)	3.6%	0%	0%
TERMINAL (d)	2/53 (4%)	0/54 (0%)	0/49 (0%)
FIRST INCIDENCE	561(T)	---	---
HC TUMORS SAME ROUTE	0/350 (0%)		
HC TUMORS ALL ROUTES	4/1459 (0%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.101N	P=0.229N	P=0.244N
POLY 1.5	P=0.101N	P=0.228N	P=0.243N
POLY 6	P=0.102N	P=0.229N	P=0.245N
COCH-ARM / FISHERS	P=0.101N	P=0.235N	P=0.252N
MAX-ISO-POLY-3	P=0.067N	P=0.074N	P=0.082N
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.000**		
CURR VS HC ALL RTEs	P=0.000**		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>Mammary Gland</b>			
<b>Carcinoma or Adenoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	3/57 (5%)	0/60 (0%)	0/56 (0%)
POLY-3 RATE (b)	3/55.48	0/57.74	0/53.99
POLY-3 PERCENT (g)	5.4%	0%	0%
TERMINAL (d)	3/53 (6%)	0/54 (0%)	0/49 (0%)
FIRST INCIDENCE	561(T)	---	---
HC TUMORS SAME ROUTE	1/350 (0%)		
HC TUMORS ALL ROUTES	7/1459 (0%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.030N*	P=0.113N	P=0.125N
POLY 1.5	P=0.029N*	P=0.112N	P=0.124N
POLY 6	P=0.030N*	P=0.113N	P=0.126N
COCH-ARM / FISHERS	P=0.030N*	P=0.112N	P=0.125N
MAX-ISO-POLY-3	P=0.027N*	P=0.037N*	P=0.043N*
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.000**		
CURR VS HC ALL RTEs	P=0.000**		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>Mammary Gland</b>			
<b>Fibroadenoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	2/57 (4%)	1/60 (2%)	3/56 (5%)
POLY-3 RATE (b)	2/55.48	1/57.74	3/53.99
POLY-3 PERCENT (g)	3.6%	1.7%	5.6%
TERMINAL (d)	2/53 (4%)	1/54 (2%)	3/49 (6%)
FIRST INCIDENCE	561	561(T)	561(T)
HC TUMORS SAME ROUTE	20/350 (6%)		
HC TUMORS ALL ROUTES	49/1459 (3%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.668	P=0.486N	P=0.488
POLY 1.5	P=0.669N	P=0.485N	P=0.490
POLY 6	P=0.667	P=0.486N	P=0.485
COCH-ARM / FISHERS	P=0.666N	P=0.481N	P=0.492
MAX-ISO-POLY-3	P=0.311	P=0.270N	P=0.315
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTEs	P=0.382	P=1.000	P=0.319
CURR VS HC SAME RTE	P=0.476		
CURR VS HC ALL RTEs	P=0.983		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>Mammary Gland</b>			
<b>Fibroma, Fibroadenoma or Adenoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	3/57 (5%)	1/60 (2%)	3/56 (5%)
POLY-3 RATE (b)	3/55.48	1/57.74	3/53.99
POLY-3 PERCENT (g)	5.4%	1.7%	5.6%
TERMINAL (d)	3/53 (6%)	1/54 (2%)	3/49 (6%)
FIRST INCIDENCE	561(T)	561(T)	561(T)
HC TUMORS SAME ROUTE	21/350 (6%)		
HC TUMORS ALL ROUTES	55/1459 (4%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.445N	P=0.292N	P=0.649
POLY 1.5	P=0.444N	P=0.291N	P=0.651
POLY 6	P=0.447N	P=0.292N	P=0.646
COCH-ARM / FISHERS	P=0.440N	P=0.290N	P=0.652
MAX-ISO-POLY-3	P=0.431	P=0.148N	P=0.487
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTEs	P=0.470	P=1.000	P=0.404
CURR VS HC SAME RTE	P=0.793		
CURR VS HC ALL RTEs	P=0.597		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>Mammary Gland</b>			
<b>Fibroma, Fibroadenoma, Carcinoma, or Adenoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	5/57 (9%)	1/60 (2%)	3/56 (5%)
POLY-3 RATE (b)	5/55.48	1/57.74	3/53.99
POLY-3 PERCENT (g)	9%	1.7%	5.6%
TERMINAL (d)	5/53 (9%)	1/54 (2%)	3/49 (6%)
FIRST INCIDENCE	561(T)	561(T)	561(T)
HC TUMORS SAME ROUTE	21/350 (6%)		
HC TUMORS ALL ROUTES	58/1459 (4%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.136N	P=0.094N	P=0.372N
POLY 1.5	P=0.135N	P=0.094N	P=0.370N
POLY 6	P=0.137N	P=0.094N	P=0.376N
COCH-ARM / FISHERS	P=0.133N	P=0.092N	P=0.368N
MAX-ISO-POLY-3	P=0.163N	P=0.043N*	P=0.247N
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTEs	P=0.498	P=1.000	P=0.438
CURR VS HC SAME RTE	P=0.492		
CURR VS HC ALL RTEs	P=0.084		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>Pituitary Gland: Pars Distalis or Unspecified Site</b>			
<b>Adenoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---
HC TUMORS SAME ROUTE	(n)	(n)	(n)
HC TUMORS ALL ROUTES	(n)	(n)	(n)
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE	(n)		
HISTCONT ALL RTEs	(n)		
CURR VS HC SAME RTE	P=2674	P=2674	P=2674
CURR VS HC ALL RTEs	P=92004-01	P=92004-01	P=92004-01

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>Pituitary Gland: Pars Distalis or Unspecified Site Carcinoma or Adenoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	26/55 (47%)	25/58 (43%)	18/56 (32%)
POLY-3 RATE (b)	26/54.32	25/56.41	18/54.57
POLY-3 PERCENT (g)	47.9%	44.3%	33%
TERMINAL (d)	24/51 (47%)	24/54 (44%)	16/49 (33%)
FIRST INCIDENCE	450	503	497
HC TUMORS SAME ROUTE	96/347 (28%)		
HC TUMORS ALL ROUTES	728/1446 (50%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.167N	P=0.428N	P=0.082N
POLY 1.5	P=0.161N	P=0.419N	P=0.079N
POLY 6	P=0.173N	P=0.431N	P=0.086N
COCH-ARM / FISHERS	P=0.152N	P=0.399N	P=0.075N
MAX-ISO-POLY-3	P=0.091N	P=0.356N	P=0.056N
HISTCONT SAME RTE	P=0.149	P=0.067	P=0.372
HISTCONT ALL RTES	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.013*		
CURR VS HC ALL RTES	P=0.545		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>Skin</b>			
<b>Basal Cell Carcinoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	26/55 (47%)	25/58 (43%)	19/56 (34%)
POLY-3 RATE (b)	26/54.32	25/56.41	19/54.57
POLY-3 PERCENT (g)	47.9%	44.3%	34.8%
TERMINAL (d)	24/51 (47%)	24/54 (44%)	17/49 (35%)
FIRST INCIDENCE	450	503	497
HC TUMORS SAME ROUTE	1/350 (0%)		
HC TUMORS ALL ROUTES	1/1459 (0%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.198N	P=0.428N	P=0.117N
POLY 1.5	P=0.191N	P=0.419N	P=0.113N
POLY 6	P=0.204N	P=0.431N	P=0.122N
COCH-ARM / FISHERS	P=0.180N	P=0.399N	P=0.108N
MAX-ISO-POLY-3	P=0.131N	P=0.356N	P=0.084N
HISTCONT SAME RTE	P=0.000**	P=0.000**	P=0.000**
HISTCONT ALL RTEs	P=0.000**	P=0.000**	P=0.000**
CURR VS HC SAME RTE	P=0.000**		
CURR VS HC ALL RTEs	P=0.000**		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>Skin</b>			
<b>Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	0/57 (0%)	2/60 (3%)	0/56 (0%)
POLY-3 RATE (b)	0/55.48	2/57.74	0/53.99
POLY-3 PERCENT (g)	0%	3.5%	0%
TERMINAL (d)	0/53 (0%)	2/54 (4%)	0/49 (0%)
FIRST INCIDENCE	---	561(T)	---
HC TUMORS SAME ROUTE	7/350 (2%)		
HC TUMORS ALL ROUTES	18/1459 (1%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.407	P=0.247	(e)
POLY 1.5	P=0.408	P=0.247	(e)
POLY 6	P=0.405	P=0.246	(e)
COCH-ARM / FISHERS	P=0.410	P=0.261	(e)
MAX-ISO-POLY-3	P=0.291	P=0.083	(e)
HISTCONT SAME RTE	P=1.000	P=0.421	(e)
HISTCONT ALL RTEs	P=0.571	P=0.157	(e)
CURR VS HC SAME RTE	P=0.253		
CURR VS HC ALL RTEs	P=0.330		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>Skin</b>			
<b>Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	0/57 (0%)	3/60 (5%)	0/56 (0%)
POLY-3 RATE (b)	0/55.48	3/57.74	0/53.99
POLY-3 PERCENT (g)	0%	5.2%	0%
TERMINAL (d)	0/53 (0%)	3/54 (6%)	0/49 (0%)
FIRST INCIDENCE	---	561(T)	---
HC TUMORS SAME ROUTE	36/350 (10%)		
HC TUMORS ALL ROUTES	119/1459 (8%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.274	P=0.127	(e)
POLY 1.5	P=0.275	P=0.128	(e)
POLY 6	P=0.272	P=0.127	(e)
COCH-ARM / FISHERS	P=0.278	P=0.132	(e)
MAX-ISO-POLY-3	P=0.220	P=0.043*	(e)
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.015*		
CURR VS HC ALL RTEs	P=0.020*		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>Skin</b>			
<b>Fibroma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	4/57 (7%)	3/60 (5%)	2/56 (4%)
POLY-3 RATE (b)	4/55.48	3/57.74	2/53.99
POLY-3 PERCENT (g)	7.2%	5.2%	3.7%
TERMINAL (d)	4/53 (8%)	3/54 (6%)	2/49 (4%)
FIRST INCIDENCE	561(T)	561(T)	561(T)
HC TUMORS SAME ROUTE	21/350 (6%)		
HC TUMORS ALL ROUTES	66/1459 (5%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.353N	P=0.478N	P=0.351N
POLY 1.5	P=0.351N	P=0.477N	P=0.349N
POLY 6	P=0.355N	P=0.479N	P=0.354N
COCH-ARM / FISHERS	P=0.347N	P=0.471N	P=0.348N
MAX-ISO-POLY-3	P=0.314N	P=0.330N	P=0.214N
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTEs	P=1.000	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.800		
CURR VS HC ALL RTEs	P=0.406		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>Skin</b>			
<b>Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	4/57 (7%)	5/60 (8%)	1/56 (2%)
POLY-3 RATE (b)	4/55.48	5/57.74	1/53.99
POLY-3 PERCENT (g)	7.2%	8.7%	1.9%
TERMINAL (d)	4/53 (8%)	5/54 (9%)	1/49 (2%)
FIRST INCIDENCE	561(T)	561(T)	561
HC TUMORS SAME ROUTE	25/350 (7%)		
HC TUMORS ALL ROUTES	79/1459 (5%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.443N	P=0.525	P=0.188N
POLY 1.5	P=0.441N	P=0.527	P=0.187N
POLY 6	P=0.446N	P=0.524	P=0.190N
COCH-ARM / FISHERS	P=0.437N	P=0.533	P=0.187N
MAX-ISO-POLY-3	P=0.142N	P=0.389	P=0.092N
HISTCONT SAME RTE	P=1.000	P=0.489	P=1.000
HISTCONT ALL RTEs	P=1.000	P=0.226	P=1.000
CURR VS HC SAME RTE	P=0.924		
CURR VS HC ALL RTEs	P=0.639		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>Skin</b>			
<b>Keratoacanthoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	4/57 (7%)	5/60 (8%)	1/56 (2%)
POLY-3 RATE (b)	4/55.48	5/57.74	1/53.99
POLY-3 PERCENT (g)	7.2%	8.7%	1.9%
TERMINAL (d)	4/53 (8%)	5/54 (9%)	1/49 (2%)
FIRST INCIDENCE	561(T)	561(T)	561
HC TUMORS SAME ROUTE	23/350 (7%)		
HC TUMORS ALL ROUTES	80/1459 (5%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.443N	P=0.525	P=0.188N
POLY 1.5	P=0.441N	P=0.527	P=0.187N
POLY 6	P=0.446N	P=0.524	P=0.190N
COCH-ARM / FISHERS	P=0.437N	P=0.533	P=0.187N
MAX-ISO-POLY-3	P=0.142N	P=0.389	P=0.092N
HISTCONT SAME RTE	P=1.000	P=0.411	P=1.000
HISTCONT ALL RTEs	P=1.000	P=0.205	P=1.000
CURR VS HC SAME RTE	P=0.950		
CURR VS HC ALL RTEs	P=0.656		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>Skin</b>			
<b>Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	3/57 (5%)	0/60 (0%)	2/56 (4%)
POLY-3 RATE (b)	3/55.48	0/57.74	2/53.99
POLY-3 PERCENT (g)	5.4%	0%	3.7%
TERMINAL (d)	3/53 (6%)	0/54 (0%)	2/49 (4%)
FIRST INCIDENCE	561(T)	---	561(T)
HC TUMORS SAME ROUTE	1/350 (0%)		
HC TUMORS ALL ROUTES	8/1459 (1%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.211N	P=0.113N	P=0.512N
POLY 1.5	P=0.210N	P=0.112N	P=0.510N
POLY 6	P=0.211N	P=0.113N	P=0.515N
COCH-ARM / FISHERS	P=0.208N	P=0.112N	P=0.508N
MAX-ISO-POLY-3	P=0.206N	P=0.037N*	P=0.337N
HISTCONT SAME RTE	P=0.014*	P=1.000	P=0.021*
HISTCONT ALL RTEs	P=0.004**	P=1.000	P=0.003**
CURR VS HC SAME RTE	P=0.000**		
CURR VS HC ALL RTEs	P=0.000**		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>Skin</b>			
<b>Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	1/57 (2%)	2/60 (3%)	0/56 (0%)
POLY-3 RATE (b)	1/55.48	2/57.74	0/53.99
POLY-3 PERCENT (g)	1.8%	3.5%	0%
TERMINAL (d)	1/53 (2%)	2/54 (4%)	0/49 (0%)
FIRST INCIDENCE	561(T)	561(T)	---
HC TUMORS SAME ROUTE	30/350 (9%)		
HC TUMORS ALL ROUTES	103/1459 (7%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.724N	P=0.514	P=0.505N
POLY 1.5	P=0.723N	P=0.515	P=0.505N
POLY 6	P=0.726N	P=0.514	P=0.507N
COCH-ARM / FISHERS	P=0.722N	P=0.519	P=0.504N
MAX-ISO-POLY-3	P=0.229N	P=0.294	P=0.165N
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.080		
CURR VS HC ALL RTES	P=0.108		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>Testes</b>			
<b>Adenoma</b>			
<b>TUMOR RATES</b>			
OVERALL(a)	4/57 (7%)	0/60 (0%)	2/56 (4%)
POLY-3 RATE (b)	4/55.48	0/57.74	2/53.99
POLY-3 PERCENT (g)	7.2%	0%	3.7%
TERMINAL (d)	4/53 (8%)	0/54 (0%)	2/49 (4%)
FIRST INCIDENCE	561(T)	---	561(T)
HC TUMORS SAME ROUTE	311/349 (89%)		
HC TUMORS ALL ROUTES	1124/1458 (77%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.091N	P=0.056N	P=0.351N
POLY 1.5	P=0.091N	P=0.056N	P=0.349N
POLY 6	P=0.092N	P=0.057N	P=0.354N
COCH-ARM / FISHERS	P=0.090N	P=0.053N	P=0.348N
MAX-ISO-POLY-3	P=0.101N	P=0.019N*	P=0.214N
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.000**		
CURR VS HC ALL RTES	P=0.000**		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>Thymus</b>			
<b>Thymoma Benign</b>			
<b>TUMOR RATES</b>			
OVERALL(a)	48/56 (86%)	53/60 (88%)	51/56 (91%)
POLY-3 RATE (b)	48/55.16	53/58.19	51/55.04
POLY-3 PERCENT (g)	87%	91.1%	92.7%
TERMINAL (d)	46/52 (88%)	51/54 (94%)	46/49 (94%)
FIRST INCIDENCE	421	482	469
HC TUMORS SAME ROUTE	1/340 (0%)		
HC TUMORS ALL ROUTES	3/1370 (0%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.227	P=0.342	P=0.246
POLY 1.5	P=0.250	P=0.373	P=0.255
POLY 6	P=0.217	P=0.328	P=0.244
COCH-ARM / FISHERS	P=0.306	P=0.442	P=0.278
MAX-ISO-POLY-3	P=0.227	P=0.239	P=0.156
HISTCONT SAME RTE	P=0.000**	P=0.000**	P=0.000**
HISTCONT ALL RTEs	P=0.000**	P=0.000**	P=0.000**
CURR VS HC SAME RTE	P=0.000**		
CURR VS HC ALL RTEs	P=0.000**		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>Thyroid Gland: C-Cell</b>			
<b>Adenoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	2/30 (7%)	0/46 (0%)	0/38 (0%)
POLY-3 RATE (b)	2/29.41	0/44.83	0/36.99
POLY-3 PERCENT (g)	6.8%	0%	0%
TERMINAL (d)	2/28 (7%)	0/43 (0%)	0/33 (0%)
FIRST INCIDENCE	561(T)	---	---
HC TUMORS SAME ROUTE	44/349 (13%)		
HC TUMORS ALL ROUTES	140/1452 (10%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.055N	P=0.148N	P=0.186N
POLY 1.5	P=0.055N	P=0.148N	P=0.185N
POLY 6	P=0.055N	P=0.148N	P=0.188N
COCH-ARM / FISHERS	P=0.057N	P=0.153N	P=0.191N
MAX-ISO-POLY-3	P=0.037N*	P=0.052N	P=0.062N
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.305		
CURR VS HC ALL RTEs	P=0.543		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>Thyroid Gland: C-Cell Carcinoma or Adenoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	5/51 (10%)	9/58 (16%)	1/56 (2%)
POLY-3 RATE (b)	5/50.32	9/56.13	1/53.99
POLY-3 PERCENT (g)	9.9%	16%	1.9%
TERMINAL (d)	5/49 (10%)	8/53 (15%)	1/49 (2%)
FIRST INCIDENCE	561(T)	482	561(T)
HC TUMORS SAME ROUTE	45/349 (13%)		
HC TUMORS ALL ROUTES	168/1452 (12%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.539N	P=0.261	P=0.087N
POLY 1.5	P=0.531N	P=0.266	P=0.085N
POLY 6	P=0.549N	P=0.258	P=0.090N
COCH-ARM / FISHERS	P=0.521N	P=0.275	P=0.083N
MAX-ISO-POLY-3	P=0.038N*	P=0.183	P=0.039N*
HISTCONT SAME RTE	P=1.000	P=0.375	P=1.000
HISTCONT ALL RTEs	P=1.000	P=0.210	P=1.000
CURR VS HC SAME RTE	P=0.468		
CURR VS HC ALL RTEs	P=0.624		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>All Organs</b>			
<b>Benign Tumors</b>			
<hr/>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---
HC TUMORS SAME ROUTE	(n)	(n)	(n)
HC TUMORS ALL ROUTES	(n)	(n)	(n)
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE	(n)		
HISTCONT ALL RTES	(n)		
CURR VS HC SAME RTE	P=2674	P=2674	P=2674
CURR VS HC ALL RTES	P=92004-01	P=92004-01	P=92004-01

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>All Organs</b>			
<b>Leukemia: Lymphocytic, Monocytic, Mononuclear or Undifferentiated</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	5/51 (10%)	9/58 (16%)	1/56 (2%)
POLY-3 RATE (b)	5/50.32	9/56.13	1/53.99
POLY-3 PERCENT (g)	9.9%	16%	1.9%
TERMINAL (d)	5/49 (10%)	8/53 (15%)	1/49 (2%)
FIRST INCIDENCE	561(T)	482	561(T)
HC TUMORS SAME ROUTE	196/350 (56%)		
HC TUMORS ALL ROUTES	762/1459 (52%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.539N	P=0.261	P=0.087N
POLY 1.5	P=0.531N	P=0.266	P=0.085N
POLY 6	P=0.549N	P=0.258	P=0.090N
COCH-ARM / FISHERS	P=0.521N	P=0.275	P=0.083N
MAX-ISO-POLY-3	P=0.038N*	P=0.183	P=0.039N*
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.000**		
CURR VS HC ALL RTEs	P=0.000**		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>All Organs</b>			
<b>Malignant Tumors</b>			
<b>TUMOR RATES</b>			
	#	#	#
OVERALL(a)	32/57 (56%)	31/60 (52%)	27/56 (48%)
POLY-3 RATE (b)	32/56.16	31/59.63	27/54.89
POLY-3 PERCENT (g)	57%	52%	49.2%
TERMINAL (d)	30/53 (57%)	26/54 (48%)	24/49 (49%)
FIRST INCIDENCE	421	337	469
HC TUMORS SAME ROUTE	250/350 (71%)		
HC TUMORS ALL ROUTES	948/1459 (65%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.269N	P=0.363N	P=0.264N
POLY 1.5	P=0.272N	P=0.371N	P=0.262N
POLY 6	P=0.265N	P=0.352N	P=0.265N
COCH-ARM / FISHERS	P=0.273N	P=0.382N	P=0.256N
MAX-ISO-POLY-3	P=0.309N	P=0.299N	P=0.207N
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.025*		
CURR VS HC ALL RTEs	P=0.136		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>All Organs</b>			
<b>Malignant and Benign Tumors</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	3/57 (5%)	3/60 (5%)	2/56 (4%)
POLY-3 RATE (b)	3/55.48	3/57.74	2/54.41
POLY-3 PERCENT (g)	5.4%	5.2%	3.7%
TERMINAL (d)	3/53 (6%)	3/54 (6%)	1/49 (2%)
FIRST INCIDENCE	561(T)	561(T)	469
HC TUMORS SAME ROUTE	347/350 (99%)		
HC TUMORS ALL ROUTES	1438/1459 (99%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.542N	P=0.643N	P=0.509N
POLY 1.5	P=0.541N	P=0.641N	P=0.509N
POLY 6	P=0.543N	P=0.643N	P=0.510N
COCH-ARM / FISHERS	P=0.539N	P=0.636N	P=0.508N
MAX-ISO-POLY-3	P=0.477N	P=0.480N	P=0.334N
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.000**		
CURR VS HC ALL RTEs	P=0.000**		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>All Organs</b>			
<b>Mesothelioma: Benign, Malignant, NOS</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---
HC TUMORS SAME ROUTE	(n)	(n)	(n)
HC TUMORS ALL ROUTES	(n)	(n)	(n)
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE	(n)		
HISTCONT ALL RTEs	(n)		
CURR VS HC SAME RTE	P=2674	P=2674	P=2674
CURR VS HC ALL RTEs	P=92004-01	P=92004-01	P=92004-01

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	MALE		
	07M	91M	92M
<b>All Organs</b>			
<b>Mesothelioma: Malignant</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---
HC TUMORS SAME ROUTE	(n)	(n)	(n)
HC TUMORS ALL ROUTES	(n)	(n)	(n)
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE	(n)		
HISTCONT ALL RTES	(n)		
CURR VS HC SAME RTE	P=2674	P=2674	P=2674
CURR VS HC ALL RTES	P=92004-01	P=92004-01	P=92004-01

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Adrenal Medulla</b>			
<b>Pheochromocytoma Benign</b>			
<b>TUMOR RATES</b>			
OVERALL(a)	3/55 (5%)	2/58 (3%)	1/58 (2%)
POLY-3 RATE (b)	3/44.45	2/51.23	1/50.64
POLY-3 PERCENT (g)	6.7%	3.9%	2%
TERMINAL (d)	2/30 (7%)	0/37 (0%)	0/37 (0%)
FIRST INCIDENCE	639	572	547
HC TUMORS SAME ROUTE	10/346 (3%)		
HC TUMORS ALL ROUTES	54/1350 (4%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.272N	P=0.436N	P=0.260N
POLY 1.5	P=0.284N	P=0.452N	P=0.270N
POLY 6	P=0.259N	P=0.416N	P=0.250N
COCH-ARM / FISHERS	P=0.303N	P=0.475N	P=0.289N
MAX-ISO-POLY-3	P=0.207N	P=0.279N	P=0.137N
HISTCONT SAME RTE	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTEs	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.259		
CURR VS HC ALL RTEs	P=0.543		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Adrenal Medulla</b>			
<b>Pheochromocytoma: Benign, Complex, Malignant, NOS</b>			
<b>TUMOR RATES</b>			
OVERALL(a)	4/55 (7%)	2/58 (3%)	1/58 (2%)
POLY-3 RATE (b)	4/44.99	2/51.23	1/50.64
POLY-3 PERCENT (g)	8.9%	3.9%	2%
TERMINAL (d)	2/30 (7%)	0/37 (0%)	0/37 (0%)
FIRST INCIDENCE	562	572	547
HC TUMORS SAME ROUTE	15/346 (4%)		
HC TUMORS ALL ROUTES	68/1350 (5%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.129N	P=0.279N	P=0.145N
POLY 1.5	P=0.137N	P=0.293N	P=0.152N
POLY 6	P=0.122N	P=0.264N	P=0.138N
COCH-ARM / FISHERS	P=0.150N	P=0.314N	P=0.166N
MAX-ISO-POLY-3	P=0.104N	P=0.170N	P=0.073N
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.266		
CURR VS HC ALL RTEs	P=0.420		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Clitoral/Preputial Gland</b>			
<b>Adenoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	3/7 (43%)	3/5 (60%)	4/7 (57%)
POLY-3 RATE (b)	3/7.00	3/4.98	4/7.00
POLY-3 PERCENT (g)	42.9%	60.2%	57.1%
TERMINAL (d)	3/7 (43%)	3/4 (75%)	4/7 (57%)
FIRST INCIDENCE	726(T)	726(T)	726(T)
HC TUMORS SAME ROUTE	41/346 (12%)		
HC TUMORS ALL ROUTES	100/1360 (7%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.433	P=0.497	P=0.500
POLY 1.5	P=0.434	P=0.499	P=0.500
POLY 6	P=0.431	P=0.495	P=0.500
COCH-ARM / FISHERS	P=0.430	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.422	P=0.305	P=0.308
HISTCONT SAME RTE	P=0.011*	P=0.054	P=0.033*
HISTCONT ALL RTEs	P=0.000**	P=0.002**	P=0.000**
CURR VS HC SAME RTE	P=0.018*		
CURR VS HC ALL RTEs	P=0.000**		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Clitoral/Preputial Gland Carcinoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	3/7 (43%)	0/5 (0%)	0/7 (0%)
POLY-3 RATE (b)	3/7.00	0/4.98	0/7.00
POLY-3 PERCENT (g)	42.9%	0%	0%
TERMINAL (d)	3/7 (43%)	0/4 (0%)	0/7 (0%)
FIRST INCIDENCE	726(T)	---	---
HC TUMORS SAME ROUTE	14/346 (4%)		
HC TUMORS ALL ROUTES	36/1360 (3%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.021N*	P=0.145N	P=0.079N
POLY 1.5	P=0.021N*	P=0.145N	P=0.079N
POLY 6	P=0.021N*	P=0.146N	P=0.079N
COCH-ARM / FISHERS	P=0.034N*	P=0.159N	P=0.096N
MAX-ISO-POLY-3	P=0.012N*	P=0.052N	P=0.017N*
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.000**		
CURR VS HC ALL RTES	P=0.000**		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Clitoral/Preputial Gland Carcinoma or Adenoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	6/7 (86%)	3/5 (60%)	4/7 (57%)
POLY-3 RATE (b)	6/7.00	3/4.98	4/7.00
POLY-3 PERCENT (g)	85.7%	60.2%	57.1%
TERMINAL (d)	6/7 (86%)	3/4 (75%)	4/7 (57%)
FIRST INCIDENCE	726(T)	726(T)	726(T)
HC TUMORS SAME ROUTE	54/346 (16%)		
HC TUMORS ALL ROUTES	135/1360 (10%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.243N	P=0.377N	P=0.282N
POLY 1.5	P=0.242N	P=0.375N	P=0.282N
POLY 6	P=0.244N	P=0.381N	P=0.282N
COCH-ARM / FISHERS	P=0.232N	P=0.364N	P=0.280N
MAX-ISO-POLY-3	P=0.206N	P=0.188N	P=0.125N
HISTCONT SAME RTE	P=0.034*	P=0.110	P=0.079
HISTCONT ALL RTEs	P=0.000**	P=0.007**	P=0.002**
CURR VS HC SAME RTE	P=0.000**		
CURR VS HC ALL RTEs	P=0.000**		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Clitoral/Preputial Gland</b>			
<b>Squamous Cell Papilloma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	0/7 (0%)	1/5 (20%)	2/7 (29%)
POLY-3 RATE (b)	0/7.00	1/4.98	2/7.00
POLY-3 PERCENT (g)	0%	20.1%	28.6%
TERMINAL (d)	0/7 (0%)	1/4 (25%)	2/7 (29%)
FIRST INCIDENCE	---	726(T)	726(T)
HC TUMORS SAME ROUTE	0/346 (0%)		
HC TUMORS ALL ROUTES	0/1360 (0%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.217	P=0.431	P=0.219
POLY 1.5	P=0.218	P=0.431	P=0.219
POLY 6	P=0.216	P=0.430	P=0.219
COCH-ARM / FISHERS	P=0.213	P=0.417	P=0.231
MAX-ISO-POLY-3	P=0.118	P=0.133	P=0.061
HISTCONT SAME RTE	P<0.001**	P=0.036*	P=0.002**
HISTCONT ALL RTEs	P=0.000**	P=0.000**	P=0.000**
CURR VS HC SAME RTE	P=1.000		
CURR VS HC ALL RTEs	P=1.000		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Heart</b>			
<b>Schwannoma Malignant</b>			
<b>TUMOR RATES</b>			
OVERALL(a)	0/56 (0%)	0/57 (0%)	0/59 (0%)
POLY-3 RATE (b)	0/45.13	0/49.70	0/51.07
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/36 (0%)	0/38 (0%)
FIRST INCIDENCE	---	---	---
HC TUMORS SAME ROUTE	2/349 (1%)		
HC TUMORS ALL ROUTES	5/1404 (0%)		
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)
HISTCONT ALL RTEs	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)		
CURR VS HC ALL RTEs	(n)		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Islets, Pancreatic</b>			
<b>Adenoma</b>			
<b>TUMOR RATES</b>			
OVERALL(a)	0/55 (0%)	0/58 (0%)	0/57 (0%)
POLY-3 RATE (b)	0/45.00	0/50.70	0/49.32
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/37 (0%)	0/37 (0%)
FIRST INCIDENCE	---	---	---
HC TUMORS SAME ROUTE	6/348 (2%)		
HC TUMORS ALL ROUTES	24/1357 (2%)		
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)
HISTCONT ALL RTEs	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)		
CURR VS HC ALL RTEs	(n)		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Liver</b>			
<b>Hepatocellular Adenoma</b>			
<b>TUMOR RATES</b>			
OVERALL(a)	0/56 (0%)	1/56 (2%)	1/59 (2%)
POLY-3 RATE (b)	0/45.13	1/50.05	1/51.07
POLY-3 PERCENT (g)	0%	2%	2%
TERMINAL (d)	0/31 (0%)	1/37 (3%)	1/38 (3%)
FIRST INCIDENCE	---	726(T)	726(T)
HC TUMORS SAME ROUTE	2/350 (1%)		
HC TUMORS ALL ROUTES	5/1403 (0%)		
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)
HISTCONT ALL RTEs	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)		
CURR VS HC ALL RTEs	(n)		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Liver</b>			
<b>Hepatocellular Carcinoma or Hepatocellular Adenoma</b>			
<b>TUMOR RATES</b>			
OVERALL(a)	0/56 (0%)	1/56 (2%)	1/59 (2%)
POLY-3 RATE (b)	0/45.13	1/50.05	1/51.07
POLY-3 PERCENT (g)	0%	2%	2%
TERMINAL (d)	0/31 (0%)	1/37 (3%)	1/38 (3%)
FIRST INCIDENCE	---	726(T)	726(T)
HC TUMORS SAME ROUTE	2/350 (1%)		
HC TUMORS ALL ROUTES	5/1403 (0%)		
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)
HISTCONT ALL RTEs	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)		
CURR VS HC ALL RTEs	(n)		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Liver</b>			
<b>Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma</b>			
<b>TUMOR RATES</b>			
OVERALL(a)	0/56 (0%)	1/56 (2%)	1/59 (2%)
POLY-3 RATE (b)	0/45.13	1/50.05	1/51.07
POLY-3 PERCENT (g)	0%	2%	2%
TERMINAL (d)	0/31 (0%)	1/37 (3%)	1/38 (3%)
FIRST INCIDENCE	---	726(T)	726(T)
HC TUMORS SAME ROUTE	2/350 (1%)		
HC TUMORS ALL ROUTES	5/1403 (0%)		
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)
HISTCONT ALL RTEs	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)		
CURR VS HC ALL RTEs	(n)		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Lung</b>			
<b>Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma</b>			
<b>TUMOR RATES</b>			
OVERALL(a)	0/56 (0%)	1/57 (2%)	0/59 (0%)
POLY-3 RATE (b)	0/45.13	1/49.77	0/51.07
POLY-3 PERCENT (g)	0%	2%	0%
TERMINAL (d)	0/31 (0%)	1/37 (3%)	0/38 (0%)
FIRST INCIDENCE	---	726(T)	---
HC TUMORS SAME ROUTE	7/350 (2%)		
HC TUMORS ALL ROUTES	18/1403 (1%)		
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)		
CURR VS HC ALL RTES	(n)		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Mammary Gland Carcinoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	2/56 (4%)	1/58 (2%)	1/59 (2%)
POLY-3 RATE (b)	2/45.23	1/51.21	1/51.64
POLY-3 PERCENT (g)	4.4%	2%	1.9%
TERMINAL (d)	1/31 (3%)	0/37 (0%)	0/38 (0%)
FIRST INCIDENCE	701	572	547
HC TUMORS SAME ROUTE	17/350 (5%)		
HC TUMORS ALL ROUTES	59/1405 (4%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.381N	P=0.457N	P=0.454N
POLY 1.5	P=0.393N	P=0.469N	P=0.465N
POLY 6	P=0.368N	P=0.442N	P=0.442N
COCH-ARM / FISHERS	P=0.411N	P=0.487N	P=0.480N
MAX-ISO-POLY-3	P=0.352N	P=0.255N	P=0.253N
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.786		
CURR VS HC ALL RTEs	P=0.876		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Mammary Gland</b>			
<b>Carcinoma or Adenoma</b>			
<hr/>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	3/56 (5%)	1/58 (2%)	1/59 (2%)
POLY-3 RATE (b)	3/45.62	1/51.21	1/51.64
POLY-3 PERCENT (g)	6.6%	2%	1.9%
TERMINAL (d)	1/31 (3%)	0/37 (0%)	0/38 (0%)
FIRST INCIDENCE	617	572	547
HC TUMORS SAME ROUTE	24/350 (7%)		
HC TUMORS ALL ROUTES	80/1405 (6%)		
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.174N	P=0.265N	P=0.262N
POLY 1.5	P=0.183N	P=0.276N	P=0.272N
POLY 6	P=0.166N	P=0.253N	P=0.253N
COCH-ARM / FISHERS	P=0.196N	P=0.296N	P=0.290N
MAX-ISO-POLY-3	P=0.178N	P=0.140N	P=0.138N
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.806		
CURR VS HC ALL RTEs	P=0.977		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Mammary Gland</b>			
<b>Fibroadenoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	27/56 (48%)	25/58 (43%)	24/59 (41%)
POLY-3 RATE (b)	27/51.34	25/51.81	24/53.51
POLY-3 PERCENT (g)	52.6%	48.3%	44.9%
TERMINAL (d)	11/31 (35%)	19/37 (51%)	16/38 (42%)
FIRST INCIDENCE	514	568	572
HC TUMORS SAME ROUTE	158/350 (45%)		
HC TUMORS ALL ROUTES	569/1405 (40%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.288N	P=0.402N	P=0.273N
POLY 1.5	P=0.271N	P=0.376N	P=0.263N
POLY 6	P=0.323N	P=0.450N	P=0.295N
COCH-ARM / FISHERS	P=0.266N	P=0.360N	P=0.266N
MAX-ISO-POLY-3	P=0.314N	P=0.328N	P=0.213N
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTEs	P=0.672	P=0.433	P=1.000
CURR VS HC SAME RTE	P=0.705		
CURR VS HC ALL RTEs	P=0.342		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Mammary Gland</b>			
<b>Fibroma, Fibroadenoma or Adenoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	28/56 (50%)	26/58 (45%)	24/59 (41%)
POLY-3 RATE (b)	28/51.73	26/52.32	24/53.51
POLY-3 PERCENT (g)	54.1%	49.7%	44.9%
TERMINAL (d)	11/31 (35%)	19/37 (51%)	16/38 (42%)
FIRST INCIDENCE	514	568	572
HC TUMORS SAME ROUTE	163/350 (47%)		
HC TUMORS ALL ROUTES	586/1405 (42%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.255N	P=0.397N	P=0.222N
POLY 1.5	P=0.236N	P=0.372N	P=0.208N
POLY 6	P=0.293N	P=0.445N	P=0.249N
COCH-ARM / FISHERS	P=0.230N	P=0.358N	P=0.207N
MAX-ISO-POLY-3	P=0.253N	P=0.323N	P=0.169N
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTEs	P=1.000	P=0.423	P=1.000
CURR VS HC SAME RTE	P=0.698		
CURR VS HC ALL RTEs	P=0.318		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Mammary Gland</b>			
<b>Fibroma, Fibroadenoma, Carcinoma, or Adenoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	29/56 (52%)	26/58 (45%)	25/59 (42%)
POLY-3 RATE (b)	29/51.73	26/52.32	25/54.08
POLY-3 PERCENT (g)	56.1%	49.7%	46.2%
TERMINAL (d)	12/31 (39%)	19/37 (51%)	16/38 (42%)
FIRST INCIDENCE	514	568	547
HC TUMORS SAME ROUTE	172/350 (49%)		
HC TUMORS ALL ROUTES	622/1405 (44%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.209N	P=0.322N	P=0.204N
POLY 1.5	P=0.196N	P=0.300N	P=0.197N
POLY 6	P=0.238N	P=0.366N	P=0.223N
COCH-ARM / FISHERS	P=0.197N	P=0.289N	P=0.205N
MAX-ISO-POLY-3	P=0.233N	P=0.255N	P=0.155N
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.734		
CURR VS HC ALL RTEs	P=0.372		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Ovary</b>			
<b>Granulosa Cell Tumor Benign</b>			
<b>TUMOR RATES</b>			
OVERALL(a)	2/55 (4%)	1/57 (2%)	0/59 (0%)
POLY-3 RATE (b)	2/44.35	1/49.72	0/51.07
POLY-3 PERCENT (g)	4.5%	2%	0%
TERMINAL (d)	1/30 (3%)	1/37 (3%)	0/38 (0%)
FIRST INCIDENCE	670	726(T)	---
HC TUMORS SAME ROUTE	5/350 (1%)		
HC TUMORS ALL ROUTES	11/1403 (1%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.231N	P=0.460N	P=0.207N
POLY 1.5	P=0.238N	P=0.471N	P=0.213N
POLY 6	P=0.224N	P=0.447N	P=0.201N
COCH-ARM / FISHERS	P=0.249N	P=0.486N	P=0.231N
MAX-ISO-POLY-3	P=0.114N	P=0.257N	P=0.073N
HISTCONT SAME RTE	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTEs	P=0.672	P=0.485	P=1.000
CURR VS HC SAME RTE	P=0.194		
CURR VS HC ALL RTEs	P=0.025*		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Pituitary Gland: Pars Distalis or Unspecified Site</b>			
<b>Adenoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	33/55 (60%)	31/57 (54%)	27/57 (47%)
POLY-3 RATE (b)	33/49.24	31/52.09	27/53.80
POLY-3 PERCENT (g)	67%	59.5%	50.2%
TERMINAL (d)	21/31 (68%)	22/36 (61%)	16/36 (44%)
FIRST INCIDENCE	534	568	384
HC TUMORS SAME ROUTE	151/345 (44%)		
HC TUMORS ALL ROUTES	772/1388 (56%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.094N	P=0.276N	P=0.057N
POLY 1.5	P=0.115N	P=0.297N	P=0.075N
POLY 6	P=0.080N	P=0.258N	P=0.046N*
COCH-ARM / FISHERS	P=0.169N	P=0.341N	P=0.125N
MAX-ISO-POLY-3	P=0.067N	P=0.215N	P=0.043N*
HISTCONT SAME RTE	P=0.390	P=0.225	P=0.450
HISTCONT ALL RTEs	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.048*		
CURR VS HC ALL RTEs	P=0.399		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Pituitary Gland: Pars Distalis or Unspecified Site Carcinoma or Adenoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	33/55 (60%)	31/57 (54%)	27/57 (47%)
POLY-3 RATE (b)	33/49.24	31/52.09	27/53.80
POLY-3 PERCENT (g)	67%	59.5%	50.2%
TERMINAL (d)	21/31 (68%)	22/36 (61%)	16/36 (44%)
FIRST INCIDENCE	534	568	384
HC TUMORS SAME ROUTE	155/345 (45%)		
HC TUMORS ALL ROUTES	783/1388 (56%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.094N	P=0.276N	P=0.057N
POLY 1.5	P=0.115N	P=0.297N	P=0.075N
POLY 6	P=0.080N	P=0.258N	P=0.046N*
COCH-ARM / FISHERS	P=0.169N	P=0.341N	P=0.125N
MAX-ISO-POLY-3	P=0.067N	P=0.215N	P=0.043N*
HISTCONT SAME RTE	P=0.440	P=0.248	P=0.485
HISTCONT ALL RTEs	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.063		
CURR VS HC ALL RTEs	P=0.461		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Skin</b>			
<b>Basal Cell Carcinoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	0/56 (0%)	0/58 (0%)	0/59 (0%)
POLY-3 RATE (b)	0/45.13	0/50.70	0/51.07
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/37 (0%)	0/38 (0%)
FIRST INCIDENCE	---	---	---
HC TUMORS SAME ROUTE	0/350 (0%)		
HC TUMORS ALL ROUTES	2/1405 (0%)		
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)
HISTCONT ALL RTEs	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)		
CURR VS HC ALL RTEs	(n)		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Skin</b>			
<b>Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	0/56 (0%)	0/58 (0%)	0/59 (0%)
POLY-3 RATE (b)	0/45.13	0/50.70	0/51.07
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/37 (0%)	0/38 (0%)
FIRST INCIDENCE	---	---	---
HC TUMORS SAME ROUTE	4/350 (1%)		
HC TUMORS ALL ROUTES	9/1405 (1%)		
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)
HISTCONT ALL RTEs	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)		
CURR VS HC ALL RTEs	(n)		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Skin</b>			
<b>Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	0/56 (0%)	0/58 (0%)	0/59 (0%)
POLY-3 RATE (b)	0/45.13	0/50.70	0/51.07
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/37 (0%)	0/38 (0%)
FIRST INCIDENCE	---	---	---
HC TUMORS SAME ROUTE	9/350 (3%)		
HC TUMORS ALL ROUTES	36/1405 (3%)		
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)
HISTCONT ALL RTEs	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)		
CURR VS HC ALL RTEs	(n)		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Skin</b>			
<b>Fibroma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	0/56 (0%)	1/58 (2%)	1/59 (2%)
POLY-3 RATE (b)	0/45.13	1/50.77	1/51.46
POLY-3 PERCENT (g)	0%	2%	1.9%
TERMINAL (d)	0/31 (0%)	0/37 (0%)	0/38 (0%)
FIRST INCIDENCE	---	708	617
HC TUMORS SAME ROUTE	7/350 (2%)		
HC TUMORS ALL ROUTES	14/1405 (1%)		
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)
HISTCONT ALL RTEs	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)		
CURR VS HC ALL RTEs	(n)		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Skin</b>			
<b>Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	0/56 (0%)	1/58 (2%)	2/59 (3%)
POLY-3 RATE (b)	0/45.13	1/50.77	2/51.56
POLY-3 PERCENT (g)	0%	2%	3.9%
TERMINAL (d)	0/31 (0%)	0/37 (0%)	0/38 (0%)
FIRST INCIDENCE	---	708	617
HC TUMORS SAME ROUTE	8/350 (2%)		
HC TUMORS ALL ROUTES	22/1405 (2%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.298	P=0.523	P=0.268
POLY 1.5	P=0.289	P=0.517	P=0.260
POLY 6	P=0.309	P=0.532	P=0.277
COCH-ARM / FISHERS	P=0.275	P=0.509	P=0.261
MAX-ISO-POLY-3	P=0.159	P=0.185	P=0.103
HISTCONT SAME RTE	P=0.294	P=1.000	P=0.444
HISTCONT ALL RTEs	P=0.152	P=1.000	P=0.182
CURR VS HC SAME RTE	P=0.293		
CURR VS HC ALL RTEs	P=0.424		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Skin</b>			
<b>Keratoacanthoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	0/56 (0%)	0/58 (0%)	0/59 (0%)
POLY-3 RATE (b)	0/45.13	0/50.70	0/51.07
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/37 (0%)	0/38 (0%)
FIRST INCIDENCE	---	---	---
HC TUMORS SAME ROUTE	2/350 (1%)		
HC TUMORS ALL ROUTES	9/1405 (1%)		
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)
HISTCONT ALL RTEs	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)		
CURR VS HC ALL RTEs	(n)		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Skin</b>			
<b>Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	0/56 (0%)	0/58 (0%)	0/59 (0%)
POLY-3 RATE (b)	0/45.13	0/50.70	0/51.07
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/37 (0%)	0/38 (0%)
FIRST INCIDENCE	---	---	---
HC TUMORS SAME ROUTE	1/350 (0%)		
HC TUMORS ALL ROUTES	6/1405 (0%)		
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)
HISTCONT ALL RTEs	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)		
CURR VS HC ALL RTEs	(n)		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Skin</b>			
<b>Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	0/56 (0%)	0/58 (0%)	0/59 (0%)
POLY-3 RATE (b)	0/45.13	0/50.70	0/51.07
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/37 (0%)	0/38 (0%)
FIRST INCIDENCE	---	---	---
HC TUMORS SAME ROUTE	6/350 (2%)		
HC TUMORS ALL ROUTES	28/1405 (2%)		
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)
HISTCONT ALL RTEs	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)		
CURR VS HC ALL RTEs	(n)		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Thymus</b>			
<b>Thymoma Benign</b>			
<b>TUMOR RATES</b>			
OVERALL(a)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---
HC TUMORS SAME ROUTE	(n)	(n)	(n)
HC TUMORS ALL ROUTES	(n)	(n)	(n)
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE	(n)		
HISTCONT ALL RTES	(n)		
CURR VS HC SAME RTE	P=2674	P=2674	P=2674
CURR VS HC ALL RTES	P=92004-01	P=92004-01	P=92004-01

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Thyroid Gland: C-Cell</b>			
<b>Adenoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	1/40 (2%)	0/39 (0%)	0/40 (0%)
POLY-3 RATE (b)	1/32.57	0/34.55	0/36.27
POLY-3 PERCENT (g)	3.1%	0%	0%
TERMINAL (d)	0/22 (0%)	0/25 (0%)	0/29 (0%)
FIRST INCIDENCE	593	---	---
HC TUMORS SAME ROUTE	35/349 (10%)		
HC TUMORS ALL ROUTES	117/1392 (8%)		
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)
HISTCONT ALL RTEs	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)		
CURR VS HC ALL RTEs	(n)		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Thyroid Gland: C-Cell Carcinoma or Adenoma</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	4/54 (7%)	1/55 (2%)	4/56 (7%)
POLY-3 RATE (b)	4/45.92	1/48.50	4/49.21
POLY-3 PERCENT (g)	8.7%	2.1%	8.1%
TERMINAL (d)	0/31 (0%)	1/36 (3%)	2/37 (5%)
FIRST INCIDENCE	541	726(T)	540
HC TUMORS SAME ROUTE	41/349 (12%)		
HC TUMORS ALL ROUTES	140/1392 (10%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.327N	P=0.163N	P=0.605N
POLY 1.5	P=0.334N	P=0.167N	P=0.611N
POLY 6	P=0.320N	P=0.158N	P=0.598N
COCH-ARM / FISHERS	P=0.346N	P=0.176N	P=0.621N
MAX-ISO-POLY-3	P=0.353N	P=0.079N	P=0.460N
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.440		
CURR VS HC ALL RTEs	P=0.532		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Uterus</b>			
<b>Polyp Stromal</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	4/54 (7%)	1/55 (2%)	5/56 (9%)
POLY-3 RATE (b)	4/45.92	1/48.50	5/49.79
POLY-3 PERCENT (g)	8.7%	2.1%	10%
TERMINAL (d)	0/31 (0%)	1/36 (3%)	2/37 (5%)
FIRST INCIDENCE	541	726(T)	540
HC TUMORS SAME ROUTE	38/350 (11%)		
HC TUMORS ALL ROUTES	147/1405 (10%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.419N	P=0.163N	P=0.550
POLY 1.5	P=0.428N	P=0.167N	P=0.540
POLY 6	P=0.410N	P=0.158N	P=0.562
COCH-ARM / FISHERS	P=0.442N	P=0.176N	P=0.523
MAX-ISO-POLY-3	P=0.281	P=0.079N	P=0.415
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.540		
CURR VS HC ALL RTEs	P=0.474		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Uterus</b>			
<b>Sarcoma Stromal</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	3/56 (5%)	5/58 (9%)	5/59 (8%)
POLY-3 RATE (b)	3/45.13	5/50.70	5/51.32
POLY-3 PERCENT (g)	6.6%	9.9%	9.7%
TERMINAL (d)	3/31 (10%)	5/37 (14%)	4/38 (11%)
FIRST INCIDENCE	726(T)	726(T)	660
HC TUMORS SAME ROUTE	2/350 (1%)		
HC TUMORS ALL ROUTES	8/1405 (1%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.381	P=0.422	P=0.429
POLY 1.5	P=0.361	P=0.403	P=0.412
POLY 6	P=0.405	P=0.445	P=0.448
COCH-ARM / FISHERS	P=0.331	P=0.378	P=0.388
MAX-ISO-POLY-3	P=0.436	P=0.295	P=0.301
HISTCONT SAME RTE	P=0.002**	P=0.004**	P=0.004**
HISTCONT ALL RTEs	P=0.000**	P=0.000**	P=0.000**
CURR VS HC SAME RTE	P=0.002**		
CURR VS HC ALL RTEs	P=0.000**		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>Uterus</b>			
<b>Sarcoma Stromal or Polyp Stromal</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	0/56 (0%)	2/58 (3%)	0/59 (0%)
POLY-3 RATE (b)	0/45.13	2/50.70	0/51.07
POLY-3 PERCENT (g)	0%	3.9%	0%
TERMINAL (d)	0/31 (0%)	2/37 (5%)	0/38 (0%)
FIRST INCIDENCE	---	726(T)	---
HC TUMORS SAME ROUTE	40/350 (11%)		
HC TUMORS ALL ROUTES	154/1405 (11%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.435	P=0.264	(e)
POLY 1.5	P=0.427	P=0.256	(e)
POLY 6	P=0.442	P=0.274	(e)
COCH-ARM / FISHERS	P=0.416	P=0.257	(e)
MAX-ISO-POLY-3	P=0.300N	P=0.100	(e)
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.019*		
CURR VS HC ALL RTEs	P=0.012*		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>All Organs</b>			
<b>Benign Tumors</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	0/56 (0%)	0/58 (0%)	0/59 (0%)
POLY-3 RATE (b)	0/45.13	0/50.70	0/51.07
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/37 (0%)	0/38 (0%)
FIRST INCIDENCE	---	---	---
HC TUMORS SAME ROUTE	267/350 (76%)		
HC TUMORS ALL ROUTES	1111/1405 (79%)		
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)
HISTCONT ALL RTEs	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)		
CURR VS HC ALL RTEs	(n)		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>All Organs</b>			
<b>Leukemia: Lymphocytic, Monocytic, Mononuclear or Undifferentiated</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	3/56 (5%)	7/58 (12%)	5/59 (8%)
POLY-3 RATE (b)	3/45.13	7/50.70	5/51.32
POLY-3 PERCENT (g)	6.6%	13.8%	9.7%
TERMINAL (d)	3/31 (10%)	7/37 (19%)	4/38 (11%)
FIRST INCIDENCE	726(T)	726(T)	660
HC TUMORS SAME ROUTE	117/350 (33%)		
HC TUMORS ALL ROUTES	468/1405 (33%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.262	P=0.209	P=0.429
POLY 1.5	P=0.245	P=0.195	P=0.412
POLY 6	P=0.284	P=0.228	P=0.448
COCH-ARM / FISHERS	P=0.218	P=0.175	P=0.388
MAX-ISO-POLY-3	P=0.321	P=0.138	P=0.301
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.000**		
CURR VS HC ALL RTEs	P=0.000**		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>All Organs</b>			
<b>Malignant Tumors</b>			
<b>TUMOR RATES</b>			
	#	#	#
OVERALL(a)	49/56 (88%)	44/58 (76%)	47/59 (80%)
POLY-3 RATE (b)	49/53.11	44/53.76	47/58.21
POLY-3 PERCENT (g)	92.3%	81.8%	80.7%
TERMINAL (d)	29/31 (94%)	31/37 (84%)	29/38 (76%)
FIRST INCIDENCE	514	568	384
HC TUMORS SAME ROUTE	173/350 (49%)		
HC TUMORS ALL ROUTES	681/1405 (48%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.046N*	P=0.078N	P=0.062N
POLY 1.5	P=0.054N	P=0.069N	P=0.089N
POLY 6	P=0.046N*	P=0.106N	P=0.048N*
COCH-ARM / FISHERS	P=0.095N	P=0.086N	P=0.190N
MAX-ISO-POLY-3	P=0.067N	P=0.042N*	P=0.039N*
HISTCONT SAME RTE	P=0.002**	P=0.006**	P=0.005**
HISTCONT ALL RTEs	P=0.000**	P=0.000**	P=0.000**
CURR VS HC SAME RTE	P=0.000**		
CURR VS HC ALL RTEs	P=0.000**		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>All Organs</b>			
<b>Malignant and Benign Tumors</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	22/56 (39%)	19/58 (33%)	16/59 (27%)
POLY-3 RATE (b)	22/48.08	19/52.97	16/53.52
POLY-3 PERCENT (g)	45.8%	35.9%	29.9%
TERMINAL (d)	12/31 (39%)	12/37 (32%)	7/38 (18%)
FIRST INCIDENCE	359	547	525
HC TUMORS SAME ROUTE	316/350 (90%)		
HC TUMORS ALL ROUTES	1294/1405 (92%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.086N	P=0.207N	P=0.070N
POLY 1.5	P=0.106N	P=0.243N	P=0.087N
POLY 6	P=0.067N	P=0.170N	P=0.057N
COCH-ARM / FISHERS	P=0.144N	P=0.298N	P=0.117N
MAX-ISO-POLY-3	P=0.086N	P=0.163N	P=0.053N
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.000**		
CURR VS HC ALL RTEs	P=0.000**		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>All Organs</b>			
<b>Mesothelioma: Benign, Malignant, NOS</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	15/56 (27%)	16/58 (28%)	13/59 (22%)
POLY-3 RATE (b)	15/47.06	16/52.46	13/52.85
POLY-3 PERCENT (g)	31.9%	30.5%	24.6%
TERMINAL (d)	8/31 (26%)	10/37 (27%)	6/38 (16%)
FIRST INCIDENCE	359	547	525
HC TUMORS SAME ROUTE	0/350 (0%)		
HC TUMORS ALL ROUTES	0/1405 (0%)		
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.361N	P=0.528N	P=0.278N
POLY 1.5	P=0.401N	P=0.568N	P=0.308N
POLY 6	P=0.317N	P=0.476N	P=0.247N
COCH-ARM / FISHERS	P=0.459N	P=0.546	P=0.353N
MAX-ISO-POLY-3	P=0.328N	P=0.443N	P=0.218N
HISTCONT SAME RTE	P=0.000**	P=0.000**	P=0.000**
HISTCONT ALL RTEs	P=0.000**	P=0.000**	P=0.000**
CURR VS HC SAME RTE	P=0.000**		
CURR VS HC ALL RTEs	P=0.000**		

Experiment Number: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:28:42

First Dose M/F: NA / NA

Lab: NIEHS

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)  
LAST REMOVAL AT 104 WEEKS**

DOSE	FEMALE		
	07F	91F	92F
<b>All Organs</b>			
<b>Mesothelioma: Malignant</b>			
<b>TUMOR RATES</b>	#	#	#
OVERALL(a)	0/56 (0%)	0/58 (0%)	0/59 (0%)
POLY-3 RATE (b)	0/45.13	0/50.70	0/51.07
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/37 (0%)	0/38 (0%)
FIRST INCIDENCE	---	---	---
HC TUMORS SAME ROUTE	0/350 (0%)		
HC TUMORS ALL ROUTES	0/1405 (0%)		
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)		
CURR VS HC ALL RTES	(n)		

**Experiment Number:** 92004-01

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

**Test Compound:** NTP 91/92 diet study

**CAS Number:** DIET9192

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 18:28:42

**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 \*\***