

**Experiment Number:** 20403 - 01  
**Test Type:** CHRONIC  
**Route:** DOSED FEED  
**Species/Strain:** RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Zinc Carbonate, Basic  
**CAS Number:** 5263-02-5

**Date Report Requested:** 08/06/2015  
**Time Report Requested:** 13:00:00  
**First Dose M/F:** 09/03/09 / 09/04/09  
**Lab:** BAT

F1\_HSD

**NTP Study Number:** C20403  
**Lock Date:** 04/05/2013  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 3.0.2.2\_002  
**PWG Approval Date:** NONE

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

Adrenal Medulla

Brain

Heart

Islets, Pancreatic

Pancreas

Pituitary Gland

Testes

Thyroid Gland

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## SUMMARY OF STATISTICALLY SIGNIFICANT ( $P \leq .05$ ) RESULTS IN THE ANALYSIS OF ZINC CARBONATE, BASIC

### MALE RATS

#### Organ

Mammary Gland

Pancreas

Pituitary Gland: Pars Distalis or Unspecified Site

Skin

All Organs

#### Morphology

Fibroadenoma

Adenoma

Carcinoma or Adenoma

Adenoma

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

Fibroma

Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma

Keratoacanthoma

Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma

Squamous Cell Papilloma, Papilloma, or Keratoacanthoma

Hemangiosarcoma or Hemangioma

Benign Tumors

Malignant and Benign Tumors

### FEMALE RATS

#### Organ

Mammary Gland

Pituitary Gland: Pars Distalis or Unspecified Site

Uterus

#### Morphology

Adenoma

Adenoma

Carcinoma or Adenoma

Polyp Stromal

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STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Adrenal Medulla</b>					
<b>Pheochromocytoma Benign</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	5/50 (10%)	3/50 (6%)	10/50 (20%)	10/50 (20%)	3/50 (6%)
POLY-3 RATE (b)	5/39.10	3/43.54	10/42.12	10/39.99	3/39.34
POLY-3 PERCENT (g)	12.8%	6.9%	23.7%	25%	7.6%
TERMINAL (d)	2/18 (11%)	3/31 (10%)	6/27 (22%)	6/21 (29%)	2/20 (10%)
FIRST INCIDENCE	652	734 (T)	659	363	715
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.369N	P=0.298N	P=0.160	P=0.133	P=0.351N
POLY 1.5	P=0.343N	P=0.324N	P=0.147	P=0.131	P=0.355N
POLY 6	P=0.403N	P=0.260N	P=0.187	P=0.138	P=0.340N
COCH-ARM / FISHERS	P=0.311N	P=0.357N	P=0.131	P=0.131	P=0.357N
MAX-ISO-POLY-3	P=0.228N	P=0.194N	P=0.107	P=0.082	P=0.225N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTEs	(e)				

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Adrenal Medulla</b>					
<b>Pheochromocytoma Malignant</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	1/38.40	1/43.54	1/41.50	1/38.57	3/39.57
POLY-3 PERCENT (g)	2.6%	2.3%	2.4%	2.6%	7.6%
TERMINAL (d)	1/18 (6%)	1/31 (3%)	1/27 (4%)	0/21 (0%)	1/20 (5%)
FIRST INCIDENCE	734 (T)	734 (T)	734 (T)	713	669
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.123	P=0.732N	P=0.744N	P=0.760N	P=0.315
POLY 1.5	P=0.128	P=0.745N	P=0.751N	P=0.761	P=0.309
POLY 6	P=0.118	P=0.710N	P=0.730N	P=0.756N	P=0.330
COCH-ARM / FISHERS	P=0.135	P=0.753N	P=0.753N	P=0.753N	P=0.309
MAX-ISO-POLY-3	P=0.210	P=0.466N	P=0.478N	P=0.498N	P=0.163
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Adrenal Medulla</b>					
<b>Pheochromocytoma: Benign, Complex, Malignant, NOS</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	6/50 (12%)	5/50 (10%)	11/50 (22%)	11/50 (22%)	5/50 (10%)
POLY-3 RATE (b)	6/39.10	5/43.54	11/42.12	11/40.08	5/39.65
POLY-3 PERCENT (g)	15.4%	11.5%	26.1%	27.5%	12.6%
TERMINAL (d)	3/18 (17%)	5/31 (16%)	7/27 (26%)	6/21 (29%)	2/20 (10%)
FIRST INCIDENCE	652	734 (T)	659	363	669
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.449N	P=0.424N	P=0.177	P=0.146	P=0.490N
POLY 1.5	P=0.426N	P=0.458N	P=0.161	P=0.144	P=0.497N
POLY 6	P=0.478N	P=0.373N	P=0.208	P=0.154	P=0.472N
COCH-ARM / FISHERS	P=0.391N	P=0.500N	P=0.143	P=0.143	P=0.500N
MAX-ISO-POLY-3	P=0.289	P=0.312N	P=0.122	P=0.094	P=0.363N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Brain</b>					
<b>Oligodendroglioma, Glioma, or Astrocytoma</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	0/48 (0%)	2/50 (4%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/37.26	2/43.82	0/41.50	1/38.72	0/39.26
POLY-3 PERCENT (g)	0%	4.6%	0%	2.6%	0%
TERMINAL (d)	0/18 (0%)	0/31 (0%)	0/27 (0%)	0/21 (0%)	0/20 (0%)
FIRST INCIDENCE	---	687	---	671	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.408N	P=0.275	(e)	P=0.508	(e)
POLY 1.5	P=0.410N	P=0.262	(e)	P=0.507	(e)
POLY 6	P=0.404N	P=0.297	(e)	P=0.511	(e)
COCH-ARM / FISHERS	P=0.410N	P=0.258	(e)	P=0.510	(e)
MAX-ISO-POLY-3	P=0.352N	P=0.109	(e)	P=0.164	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Heart</b>					
<b>Schwannoma Malignant</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/38.40	1/43.54	2/42.54	1/38.48	0/39.26
POLY-3 PERCENT (g)	0%	2.3%	4.7%	2.6%	0%
TERMINAL (d)	0/18 (0%)	1/31 (3%)	0/27 (0%)	1/21 (5%)	0/20 (0%)
FIRST INCIDENCE	---	734 (T)	568	734 (T)	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.298N	P=0.525	P=0.260	P=0.500	(e)
POLY 1.5	P=0.296N	P=0.514	P=0.250	P=0.500	(e)
POLY 6	P=0.301N	P=0.543	P=0.278	P=0.504	(e)
COCH-ARM / FISHERS	P=0.292N	P=0.500	P=0.247	P=0.500	(e)
MAX-ISO-POLY-3	P=0.400	P=0.187	P=0.098	P=0.158	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				



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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Intestine Small: Jejunum Carcinoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	1/38.89	0/43.54	1/41.74	1/38.69	3/39.42
POLY-3 PERCENT (g)	2.6%	0%	2.4%	2.6%	7.6%
TERMINAL (d)	0/18 (0%)	0/31 (0%)	0/27 (0%)	0/21 (0%)	0/20 (0%)
FIRST INCIDENCE	586	---	670	680	715
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.057	P=0.478N	P=0.745N	P=0.760	P=0.309
POLY 1.5	P=0.061	P=0.488N	P=0.752N	P=0.759	P=0.306
POLY 6	P=0.053	P=0.461N	P=0.733N	P=0.759N	P=0.319
COCH-ARM / FISHERS	P=0.067	P=0.500N	P=0.753N	P=0.753N	P=0.309
MAX-ISO-POLY-3	P=0.094	P=0.157N	P=0.480N	P=0.498	P=0.157
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Intestine Small: Site Unspecified Carcinoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	2/38.89	0/43.54	1/41.74	1/38.69	3/39.42
POLY-3 PERCENT (g)	5.1%	0%	2.4%	2.6%	7.6%
TERMINAL (d)	1/18 (6%)	0/31 (0%)	0/27 (0%)	0/21 (0%)	0/20 (0%)
FIRST INCIDENCE	586	---	670	680	715
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.116	P=0.213N	P=0.475N	P=0.502N	P=0.506
POLY 1.5	P=0.124	P=0.224N	P=0.486N	P=0.502N	P=0.502
POLY 6	P=0.105	P=0.196N	P=0.456N	P=0.496N	P=0.519
COCH-ARM / FISHERS	P=0.137	P=0.247N	P=0.500N	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.200	P=0.075N	P=0.266N	P=0.281N	P=0.329
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Islets, Pancreatic Adenoma</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	2/50 (4%)	6/50 (12%)	2/50 (4%)	2/49 (4%)	2/49 (4%)
POLY-3 RATE (b)	2/38.40	6/43.80	2/41.83	2/38.30	2/39.21
POLY-3 PERCENT (g)	5.2%	13.7%	4.8%	5.2%	5.1%
TERMINAL (d)	2/18 (11%)	5/31 (16%)	1/27 (4%)	1/21 (5%)	1/20 (5%)
FIRST INCIDENCE	734 (T)	663	641	551	717
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.274N	P=0.178	P=0.663N	P=0.694	P=0.688N
POLY 1.5	P=0.272N	P=0.157	P=0.677N	P=0.689	P=0.694N
POLY 6	P=0.276N	P=0.218	P=0.639N	P=0.685N	P=0.674N
COCH-ARM / FISHERS	P=0.268N	P=0.134	P=0.691N	P=0.684	P=0.684
MAX-ISO-POLY-3	P=0.386N	P=0.111	P=0.466N	P=0.498	P=0.491N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Islets, Pancreatic Carcinoma or Adenoma</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	3/50 (6%)	6/50 (12%)	3/50 (6%)	3/49 (6%)	3/49 (6%)
POLY-3 RATE (b)	3/38.69	6/43.80	3/41.83	3/38.34	3/39.21
POLY-3 PERCENT (g)	7.8%	13.7%	7.2%	7.8%	7.7%
TERMINAL (d)	2/18 (11%)	5/31 (16%)	2/27 (7%)	1/21 (5%)	2/20 (10%)
FIRST INCIDENCE	656	663	641	551	717
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.380N	P=0.306	P=0.627N	P=0.660	P=0.658N
POLY 1.5	P=0.372N	P=0.276	P=0.642N	P=0.655	P=0.662
POLY 6	P=0.391N	P=0.356	P=0.599N	P=0.657N	P=0.644N
COCH-ARM / FISHERS	P=0.361N	P=0.243	P=0.661N	P=0.651	P=0.651
MAX-ISO-POLY-3	P=0.534N	P=0.207	P=0.462N	P=0.495	P=0.493N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

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DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Mammary Gland Adenoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/38.40	0/43.54	0/41.50	0/38.48	0/39.26
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/18 (0%)	0/31 (0%)	0/27 (0%)	0/21 (0%)	0/20 (0%)
FIRST INCIDENCE	---	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)				
CURR VS HC ALL RTES	(n)				

Experiment Number: 20403 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Zinc Carbonate, Basic  
 CAS Number: 5263-02-5

Date Report Requested: 08/06/2015  
 Time Report Requested: 13:00:00  
 First Dose M/F: 09/03/09 / 09/04/09  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Mammary Gland Carcinoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/38.40	0/43.54	0/41.50	0/38.48	0/39.26
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/18 (0%)	0/31 (0%)	0/27 (0%)	0/21 (0%)	0/20 (0%)
FIRST INCIDENCE	---	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)				
CURR VS HC ALL RTES	(n)				

Experiment Number: 20403 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Zinc Carbonate, Basic  
 CAS Number: 5263-02-5

Date Report Requested: 08/06/2015  
 Time Report Requested: 13:00:00  
 First Dose M/F: 09/03/09 / 09/04/09  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Mammary Gland Carcinoma or Adenoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/38.40	0/43.54	0/41.50	0/38.48	0/39.26
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/18 (0%)	0/31 (0%)	0/27 (0%)	0/21 (0%)	0/20 (0%)
FIRST INCIDENCE	---	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)				
CURR VS HC ALL RTES	(n)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Mammary Gland Fibroadenoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	3/50 (6%)	3/50 (6%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	3/39.17	3/43.75	0/41.50	1/38.48	1/39.86
POLY-3 PERCENT (g)	7.7%	6.9%	0%	2.6%	2.5%
TERMINAL (d)	0/18 (0%)	1/31 (3%)	0/27 (0%)	1/21 (5%)	0/20 (0%)
FIRST INCIDENCE	638	698	---	734 (T)	541
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.295N	P=0.611N	P=0.108N	P=0.310N	P=0.298N
POLY 1.5	P=0.287N	P=0.634N	P=0.112N	P=0.309N	P=0.302N
POLY 6	P=0.307N	P=0.573N	P=0.101N	P=0.309N	P=0.289N
COCH-ARM / FISHERS	P=0.274N	P=0.661N	P=0.121N	P=0.309N	P=0.309N
MAX-ISO-POLY-3	P=0.165N	P=0.447N	P=0.037N*	P=0.158N	P=0.150N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				



Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Mammary Gland Fibroma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/38.40	0/43.54	2/41.77	1/38.48	1/39.26
POLY-3 PERCENT (g)	0%	0%	4.8%	2.6%	2.6%
TERMINAL (d)	0/18 (0%)	0/31 (0%)	1/27 (4%)	1/21 (5%)	1/20 (5%)
FIRST INCIDENCE	---	---	660	734 (T)	734 (T)
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.452	(e)	P=0.256	P=0.500	P=0.504
POLY 1.5	P=0.459	(e)	P=0.248	P=0.500	P=0.502
POLY 6	P=0.444	(e)	P=0.271	P=0.504	P=0.511
COCH-ARM / FISHERS	P=0.469	(e)	P=0.247	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.278	(e)	P=0.094	P=0.158	P=0.163
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Mammary Gland</b>					
<b>Fibroma, Fibroadenoma or Adenoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	3/50 (6%)	3/50 (6%)	2/50 (4%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	3/39.17	3/43.75	2/41.77	2/38.48	2/39.86
POLY-3 PERCENT (g)	7.7%	6.9%	4.8%	5.2%	5%
TERMINAL (d)	0/18 (0%)	1/31 (3%)	1/27 (4%)	2/21 (10%)	1/20 (5%)
FIRST INCIDENCE	638	698	660	734 (T)	541
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.429N	P=0.611N	P=0.471N	P=0.508N	P=0.492N
POLY 1.5	P=0.416N	P=0.634N	P=0.483N	P=0.506N	P=0.497N
POLY 6	P=0.447N	P=0.573N	P=0.450N	P=0.508N	P=0.482N
COCH-ARM / FISHERS	P=0.397N	P=0.661N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.544N	P=0.447N	P=0.302N	P=0.331N	P=0.317N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Zinc Carbonate, Basic  
 CAS Number: 5263-02-5

Date Report Requested: 08/06/2015  
 Time Report Requested: 13:00:00  
 First Dose M/F: 09/03/09 / 09/04/09  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Mammary Gland</b>					
<b>Fibroma, Fibroadenoma, Carcinoma, or Adenoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	3/50 (6%)	3/50 (6%)	2/50 (4%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	3/39.17	3/43.75	2/41.77	2/38.48	2/39.86
POLY-3 PERCENT (g)	7.7%	6.9%	4.8%	5.2%	5%
TERMINAL (d)	0/18 (0%)	1/31 (3%)	1/27 (4%)	2/21 (10%)	1/20 (5%)
FIRST INCIDENCE	638	698	660	734 (T)	541
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.429N	P=0.611N	P=0.471N	P=0.508N	P=0.492N
POLY 1.5	P=0.416N	P=0.634N	P=0.483N	P=0.506N	P=0.497N
POLY 6	P=0.447N	P=0.573N	P=0.450N	P=0.508N	P=0.482N
COCH-ARM / FISHERS	P=0.397N	P=0.661N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.544N	P=0.447N	P=0.302N	P=0.331N	P=0.317N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Pancreas</b>					
<b>Adenoma</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	11/49 (22%)	21/50 (42%)	19/48 (40%)	13/48 (27%)	10/48 (21%)
POLY-3 RATE (b)	11/38.72	21/45.16	19/40.89	13/37.46	10/38.28
POLY-3 PERCENT (g)	28.4%	46.5%	46.5%	34.7%	26.1%
TERMINAL (d)	8/18 (44%)	14/31 (45%)	16/27 (59%)	11/21 (52%)	9/20 (45%)
FIRST INCIDENCE	652	467	701	648	729
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.048N*	P=0.065	P=0.069	P=0.363	P=0.512N
POLY 1.5	P=0.042N*	P=0.045*	P=0.061	P=0.369	P=0.517N
POLY 6	P=0.062N	P=0.112	P=0.089	P=0.370	P=0.500N
COCH-ARM / FISHERS	P=0.037N*	P=0.031*	P=0.054	P=0.385	P=0.521N
MAX-ISO-POLY-3	P=0.088N	P=0.051	P=0.048*	P=0.275	P=0.409N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Pancreas</b>					
<b>Carcinoma or Adenoma</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	11/49 (22%)	21/50 (42%)	19/48 (40%)	13/48 (27%)	10/48 (21%)
POLY-3 RATE (b)	11/38.72	21/45.16	19/40.89	13/37.46	10/38.28
POLY-3 PERCENT (g)	28.4%	46.5%	46.5%	34.7%	26.1%
TERMINAL (d)	8/18 (44%)	14/31 (45%)	16/27 (59%)	11/21 (52%)	9/20 (45%)
FIRST INCIDENCE	652	467	701	648	729
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.048N*	P=0.065	P=0.069	P=0.363	P=0.512N
POLY 1.5	P=0.042N*	P=0.045*	P=0.061	P=0.369	P=0.517N
POLY 6	P=0.062N	P=0.112	P=0.089	P=0.370	P=0.500N
COCH-ARM / FISHERS	P=0.037N*	P=0.031*	P=0.054	P=0.385	P=0.521N
MAX-ISO-POLY-3	P=0.088N	P=0.051	P=0.048*	P=0.275	P=0.409N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Pituitary Gland: Pars Distalis or Unspecified Site Adenoma</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	2/50 (4%)	8/50 (16%)	4/50 (8%)	7/50 (14%)	6/49 (12%)
POLY-3 RATE (b)	2/38.63	8/43.72	4/43.30	7/39.65	6/39.58
POLY-3 PERCENT (g)	5.2%	18.3%	9.2%	17.7%	15.2%
TERMINAL (d)	1/18 (6%)	7/31 (23%)	1/27 (4%)	2/21 (10%)	2/20 (10%)
FIRST INCIDENCE	673	687	406	461	645
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.242	P=0.067	P=0.391	P=0.082	P=0.138
POLY 1.5	P=0.247	P=0.057	P=0.368	P=0.080	P=0.131
POLY 6	P=0.244	P=0.089	P=0.425	P=0.088	P=0.155
COCH-ARM / FISHERS	P=0.264	P=0.046*	P=0.339	P=0.080	P=0.128
MAX-ISO-POLY-3	P=0.141	P=0.041*	P=0.253	P=0.042*	P=0.074
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Pituitary Gland: Pars Distalis or Unspecified Site Carcinoma or Adenoma</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	3/50 (6%)	8/50 (16%)	4/50 (8%)	7/50 (14%)	6/49 (12%)
POLY-3 RATE (b)	3/39.34	8/43.72	4/43.30	7/39.65	6/39.58
POLY-3 PERCENT (g)	7.6%	18.3%	9.2%	17.7%	15.2%
TERMINAL (d)	1/18 (6%)	7/31 (23%)	1/27 (4%)	2/21 (10%)	2/20 (10%)
FIRST INCIDENCE	488	687	406	461	645
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.285	P=0.133	P=0.552	P=0.156	P=0.242
POLY 1.5	P=0.295	P=0.116	P=0.531	P=0.156	P=0.235
POLY 6	P=0.283	P=0.164	P=0.586	P=0.163	P=0.263
COCH-ARM / FISHERS	P=0.320	P=0.100	P=0.500	P=0.159	P=0.233
MAX-ISO-POLY-3	P=0.242	P=0.085	P=0.401	P=0.089	P=0.146
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Pituitary Gland: Pars Intermedia Adenoma</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/38.40	0/43.54	2/42.46	0/38.48	0/38.63
POLY-3 PERCENT (g)	0%	0%	4.7%	0%	0%
TERMINAL (d)	0/18 (0%)	0/31 (0%)	0/27 (0%)	0/21 (0%)	0/20 (0%)
FIRST INCIDENCE	---	---	439	---	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.282N	(e)	P=0.260	(e)	(e)
POLY 1.5	P=0.280N	(e)	P=0.250	(e)	(e)
POLY 6	P=0.284N	(e)	P=0.276	(e)	(e)
COCH-ARM / FISHERS	P=0.280N	(e)	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.420	(e)	P=0.097	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				



Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Pituitary Gland: Pars Intermedia Carcinoma or Adenoma</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	1/38.59	0/43.54	2/42.46	0/38.48	0/38.63
POLY-3 PERCENT (g)	2.6%	0%	4.7%	0%	0%
TERMINAL (d)	0/18 (0%)	0/31 (0%)	0/27 (0%)	0/21 (0%)	0/20 (0%)
FIRST INCIDENCE	684	---	439	---	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.193N	P=0.476N	P=0.533	P=0.501N	P=0.500N
POLY 1.5	P=0.186N	P=0.487N	P=0.519	P=0.501N	P=0.503N
POLY 6	P=0.202N	P=0.459N	P=0.555	P=0.498N	P=0.493N
COCH-ARM / FISHERS	P=0.179N	P=0.500N	P=0.500	P=0.500N	P=0.505N
MAX-ISO-POLY-3	P=0.324N	P=0.157N	P=0.316	P=0.158N	P=0.159N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<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)	2/50 (4%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/38.89	0/43.54	1/41.50	1/38.57	1/39.53
POLY-3 PERCENT (g)	5.1%	0%	2.4%	2.6%	2.5%
TERMINAL (d)	1/18 (6%)	0/31 (0%)	1/27 (4%)	0/21 (0%)	0/20 (0%)
FIRST INCIDENCE	586	---	734 (T)	713	660
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.580	P=0.213N	P=0.477N	P=0.503N	P=0.494N
POLY 1.5	P=0.594	P=0.224N	P=0.487N	P=0.503N	P=0.498N
POLY 6	P=0.562	P=0.196N	P=0.460N	P=0.498N	P=0.484N
COCH-ARM / FISHERS	P=0.609N	P=0.247N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.325N	P=0.075N	P=0.267N	P=0.282N	P=0.276N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Skin</b>					
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	5/50 (10%)	0/50 (0%)	3/50 (6%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	5/39.02	0/43.54	3/41.50	1/38.57	3/39.95
POLY-3 PERCENT (g)	12.8%	0%	7.2%	2.6%	7.5%
TERMINAL (d)	3/18 (17%)	0/31 (0%)	3/27 (11%)	0/21 (0%)	0/20 (0%)
FIRST INCIDENCE	586	---	734 (T)	713	649
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.555	P=0.022N*	P=0.321N	P=0.102N	P=0.342N
POLY 1.5	P=0.573N	P=0.026N*	P=0.336N	P=0.102N	P=0.351N
POLY 6	P=0.528	P=0.017N*	P=0.296N	P=0.097N	P=0.320N
COCH-ARM / FISHERS	P=0.542N	P=0.028N*	P=0.357N	P=0.102N	P=0.357N
MAX-ISO-POLY-3	P=0.104N	P=0.009N**	P=0.207N	P=0.045N*	P=0.219N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Skin Fibroma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	2/50 (4%)	4/50 (8%)	3/50 (6%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/38.53	4/44.66	3/41.95	1/38.48	0/39.26
POLY-3 PERCENT (g)	5.2%	9%	7.2%	2.6%	0%
TERMINAL (d)	1/18 (6%)	1/31 (3%)	1/27 (4%)	1/21 (5%)	0/20 (0%)
FIRST INCIDENCE	701	504	660	734 (T)	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.039N*	P=0.407	P=0.539	P=0.500N	P=0.232N
POLY 1.5	P=0.038N*	P=0.375	P=0.522	P=0.501N	P=0.235N
POLY 6	P=0.042N*	P=0.458	P=0.568	P=0.495N	P=0.225N
COCH-ARM / FISHERS	P=0.035N*	P=0.339	P=0.500	P=0.500N	P=0.247N
MAX-ISO-POLY-3	P=0.072N	P=0.270	P=0.363	P=0.280N	P=0.075N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Skin</b>					
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	3/50 (6%)	6/50 (12%)	3/50 (6%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	3/39.14	6/45.58	3/41.95	1/38.48	0/39.26
POLY-3 PERCENT (g)	7.7%	13.2%	7.2%	2.6%	0%
TERMINAL (d)	1/18 (6%)	1/31 (3%)	1/27 (4%)	1/21 (5%)	0/20 (0%)
FIRST INCIDENCE	538	504	660	734 (T)	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.014N*	P=0.322	P=0.631N	P=0.310N	P=0.117N
POLY 1.5	P=0.013N*	P=0.285	P=0.645N	P=0.309N	P=0.119N
POLY 6	P=0.016N*	P=0.383	P=0.605N	P=0.307N	P=0.113N
COCH-ARM / FISHERS	P=0.013N*	P=0.243	P=0.661N	P=0.309N	P=0.121N
MAX-ISO-POLY-3	P=0.026N*	P=0.223	P=0.466N	P=0.158N	P=0.037N*
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Skin</b>					
<b>Fibrosarcoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/39.01	2/44.45	0/41.50	0/38.48	0/39.26
POLY-3 PERCENT (g)	2.6%	4.5%	0%	0%	0%
TERMINAL (d)	0/18 (0%)	0/31 (0%)	0/27 (0%)	0/21 (0%)	0/20 (0%)
FIRST INCIDENCE	538	538	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.175N	P=0.545	P=0.488N	P=0.503N	P=0.499N
POLY 1.5	P=0.174N	P=0.525	P=0.493N	P=0.502N	P=0.500N
POLY 6	P=0.177N	P=0.577	P=0.478N	P=0.501N	P=0.494N
COCH-ARM / FISHERS	P=0.171N	P=0.500	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.180N	P=0.329	P=0.157N	P=0.161N	P=0.157N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Zinc Carbonate, Basic  
 CAS Number: 5263-02-5

Date Report Requested: 08/06/2015  
 Time Report Requested: 13:00:00  
 First Dose M/F: 09/03/09 / 09/04/09  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Skin</b>					
<b>Keratoacanthoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	3/50 (6%)	0/50 (0%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	3/38.53	0/43.54	2/41.50	0/38.48	1/39.37
POLY-3 PERCENT (g)	7.8%	0%	4.8%	0%	2.5%
TERMINAL (d)	2/18 (11%)	0/31 (0%)	2/27 (7%)	0/21 (0%)	0/20 (0%)
FIRST INCIDENCE	701	---	734 (T)	---	707
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.322N	P=0.098N	P=0.466N	P=0.118N	P=0.296N
POLY 1.5	P=0.305N	P=0.107N	P=0.481N	P=0.119N	P=0.302N
POLY 6	P=0.346N	P=0.085N	P=0.441N	P=0.114N	P=0.284N
COCH-ARM / FISHERS	P=0.284N	P=0.121N	P=0.500N	P=0.121N	P=0.309N
MAX-ISO-POLY-3	P=0.091N	P=0.037N*	P=0.300N	P=0.037N*	P=0.149N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Skin</b>					
<b>Lipoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/38.40	2/43.64	0/41.50	1/38.70	1/39.26
POLY-3 PERCENT (g)	0%	4.6%	0%	2.6%	2.6%
TERMINAL (d)	0/18 (0%)	1/31 (3%)	0/27 (0%)	0/21 (0%)	1/20 (5%)
FIRST INCIDENCE	---	708	---	677	734 (T)
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.473	P=0.266	(e)	P=0.502	P=0.504
POLY 1.5	P=0.473	P=0.253	(e)	P=0.500	P=0.502
POLY 6	P=0.476	P=0.290	(e)	P=0.507	P=0.511
COCH-ARM / FISHERS	P=0.476	P=0.247	(e)	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.389	P=0.103	(e)	P=0.159	P=0.163
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				



Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Skin</b>					
<b>Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/38.40	0/43.54	1/41.50	0/38.48	2/39.84
POLY-3 PERCENT (g)	2.6%	0%	2.4%	0%	5%
TERMINAL (d)	1/18 (6%)	0/31 (0%)	1/27 (4%)	0/21 (0%)	0/20 (0%)
FIRST INCIDENCE	734 (T)	---	734 (T)	---	649
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.225	P=0.475N	P=0.744N	P=0.500N	P=0.513
POLY 1.5	P=0.233	P=0.486N	P=0.751N	P=0.500N	P=0.505
POLY 6	P=0.215	P=0.457N	P=0.730N	P=0.496N	P=0.529
COCH-ARM / FISHERS	P=0.244	P=0.500N	P=0.753N	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.223	P=0.157N	P=0.478N	P=0.157N	P=0.294
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Skin</b>					
<b>Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	3/50 (6%)	0/50 (0%)	2/50 (4%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	3/38.53	0/43.54	2/41.50	0/38.48	2/39.67
POLY-3 PERCENT (g)	7.8%	0%	4.8%	0%	5%
TERMINAL (d)	2/18 (11%)	0/31 (0%)	2/27 (7%)	0/21 (0%)	0/20 (0%)
FIRST INCIDENCE	701	---	734 (T)	---	649
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.593	P=0.098N	P=0.466N	P=0.118N	P=0.487N
POLY 1.5	P=0.582N	P=0.107N	P=0.481N	P=0.119N	P=0.495N
POLY 6	P=0.569	P=0.085N	P=0.441N	P=0.114N	P=0.468N
COCH-ARM / FISHERS	P=0.557N	P=0.121N	P=0.500N	P=0.121N	P=0.500N
MAX-ISO-POLY-3	P=0.192N	P=0.037N*	P=0.300N	P=0.037N*	P=0.313N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Zinc Carbonate, Basic  
 CAS Number: 5263-02-5

Date Report Requested: 08/06/2015  
 Time Report Requested: 13:00:00  
 First Dose M/F: 09/03/09 / 09/04/09  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Skin</b>					
<b>Squamous Cell Papilloma, Papilloma, or Keratoacanthoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	3/50 (6%)	0/50 (0%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	3/38.53	0/43.54	2/41.50	0/38.48	1/39.37
POLY-3 PERCENT (g)	7.8%	0%	4.8%	0%	2.5%
TERMINAL (d)	2/18 (11%)	0/31 (0%)	2/27 (7%)	0/21 (0%)	0/20 (0%)
FIRST INCIDENCE	701	---	734 (T)	---	707
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.322N	P=0.098N	P=0.466N	P=0.118N	P=0.296N
POLY 1.5	P=0.305N	P=0.107N	P=0.481N	P=0.119N	P=0.302N
POLY 6	P=0.346N	P=0.085N	P=0.441N	P=0.114N	P=0.284N
COCH-ARM / FISHERS	P=0.284N	P=0.121N	P=0.500N	P=0.121N	P=0.309N
MAX-ISO-POLY-3	P=0.091N	P=0.037N*	P=0.300N	P=0.037N*	P=0.149N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Stomach, Forestomach Squamous Cell Carcinoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/38.40	2/43.61	0/41.50	0/38.48	0/39.26
POLY-3 PERCENT (g)	0%	4.6%	0%	0%	0%
TERMINAL (d)	0/18 (0%)	1/31 (3%)	0/27 (0%)	0/21 (0%)	0/20 (0%)
FIRST INCIDENCE	---	715	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.257N	P=0.266	(e)	(e)	(e)
POLY 1.5	P=0.262N	P=0.253	(e)	(e)	(e)
POLY 6	P=0.249N	P=0.289	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.269N	P=0.247	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.264N	P=0.103	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Testes</b>					
<b>Adenoma</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/38.40	2/43.54	0/41.50	0/38.48	0/39.26
POLY-3 PERCENT (g)	0%	4.6%	0%	0%	0%
TERMINAL (d)	0/18 (0%)	2/31 (7%)	0/27 (0%)	0/21 (0%)	0/20 (0%)
FIRST INCIDENCE	---	734 (T)	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.258N	P=0.266	(e)	(e)	(e)
POLY 1.5	P=0.263N	P=0.253	(e)	(e)	(e)
POLY 6	P=0.250N	P=0.288	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.269N	P=0.247	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.263N	P=0.103	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Thyroid Gland: C-Cell Adenoma</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	2/50 (4%)	5/50 (10%)	1/50 (2%)	2/50 (4%)	2/49 (4%)
POLY-3 RATE (b)	2/38.83	5/45.14	1/41.52	2/38.48	2/38.84
POLY-3 PERCENT (g)	5.2%	11.1%	2.4%	5.2%	5.2%
TERMINAL (d)	1/18 (6%)	1/31 (3%)	0/27 (0%)	2/21 (10%)	1/20 (5%)
FIRST INCIDENCE	611	505	728	734 (T)	597
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.424N	P=0.281	P=0.477N	P=0.692	P=0.695N
POLY 1.5	P=0.418N	P=0.251	P=0.487N	P=0.691	P=0.690
POLY 6	P=0.432N	P=0.330	P=0.459N	P=0.695N	P=0.684N
COCH-ARM / FISHERS	P=0.406N	P=0.218	P=0.500N	P=0.691N	P=0.684
MAX-ISO-POLY-3	P=0.405N	P=0.182	P=0.266N	P=0.496	P=0.499N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Thyroid Gland: C-Cell Carcinoma</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	1/50 (2%)	2/50 (4%)	3/50 (6%)	2/50 (4%)	1/49 (2%)
POLY-3 RATE (b)	1/38.41	2/43.72	3/41.50	2/38.48	1/38.38
POLY-3 PERCENT (g)	2.6%	4.6%	7.2%	5.2%	2.6%
TERMINAL (d)	0/18 (0%)	1/31 (3%)	3/27 (11%)	2/21 (10%)	1/20 (5%)
FIRST INCIDENCE	733	686	734 (T)	734 (T)	734 (T)
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.386N	P=0.545	P=0.333	P=0.501	P=0.761
POLY 1.5	P=0.377N	P=0.525	P=0.321	P=0.499	P=0.758
POLY 6	P=0.396N	P=0.578	P=0.354	P=0.508	P=0.755N
COCH-ARM / FISHERS	P=0.363N	P=0.500	P=0.309	P=0.500	P=0.747
MAX-ISO-POLY-3	P=0.534	P=0.329	P=0.181	P=0.280	P=0.499
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Thyroid Gland: C-Cell Carcinoma or Adenoma</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	3/50 (6%)	7/50 (14%)	4/50 (8%)	3/50 (6%)	3/49 (6%)
POLY-3 RATE (b)	3/38.83	7/45.32	4/41.52	3/38.48	3/38.84
POLY-3 PERCENT (g)	7.7%	15.4%	9.6%	7.8%	7.7%
TERMINAL (d)	1/18 (6%)	2/31 (7%)	3/27 (11%)	3/21 (14%)	2/20 (10%)
FIRST INCIDENCE	611	505	728	734 (T)	597
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.269N	P=0.227	P=0.537	P=0.660	P=0.664N
POLY 1.5	P=0.260N	P=0.194	P=0.521	P=0.659	P=0.657
POLY 6	P=0.281N	P=0.283	P=0.565	P=0.664N	P=0.649N
COCH-ARM / FISHERS	P=0.244N	P=0.159	P=0.500	P=0.661N	P=0.651
MAX-ISO-POLY-3	P=0.476N	P=0.155	P=0.385	P=0.495	P=0.499N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				



Experiment Number: 20403 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Zinc Carbonate, Basic  
 CAS Number: 5263-02-5

Date Report Requested: 08/06/2015  
 Time Report Requested: 13:00:00  
 First Dose M/F: 09/03/09 / 09/04/09  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>All Organs</b>					
<b>Hemangiosarcoma or Hemangioma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/38.57	0/43.54	0/41.50	0/38.48	0/39.26
POLY-3 PERCENT (g)	5.2%	0%	0%	0%	0%
TERMINAL (d)	1/18 (6%)	0/31 (0%)	0/27 (0%)	0/21 (0%)	0/20 (0%)
FIRST INCIDENCE	691	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.292N	P=0.211N	P=0.221N	P=0.237N	P=0.232N
POLY 1.5	P=0.278N	P=0.223N	P=0.228N	P=0.238N	P=0.235N
POLY 6	P=0.314N	P=0.194N	P=0.209N	P=0.233N	P=0.226N
COCH-ARM / FISHERS	P=0.261N	P=0.247N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.022N*	P=0.075N	P=0.075N	P=0.075N	P=0.075N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>All Organs</b>					
<b>Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
<b>OVERALL (a)</b>	1/50 (2%)	2/50 (4%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
<b>POLY-3 RATE (b)</b>	1/38.75	2/43.80	0/41.50	1/38.62	1/39.26
<b>POLY-3 PERCENT (g)</b>	2.6%	4.6%	0%	2.6%	2.6%
<b>TERMINAL (d)</b>	0/18 (0%)	1/31 (3%)	0/27 (0%)	0/21 (0%)	1/20 (5%)
<b>FIRST INCIDENCE</b>	638	663	---	700	734 (T)
<b>HC TUMORS SAME ROUTE</b>	0/0 (0%)				
<b>HC TUMORS ALL ROUTES</b>	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
<b>POLY 3</b>	P=0.599	P=0.543	P=0.486N	P=0.761	P=0.758N
<b>POLY 1.5</b>	P=0.604	P=0.523	P=0.492N	P=0.760	P=0.760N
<b>POLY 6</b>	P=0.592	P=0.573	P=0.476N	P=0.759N	P=0.753N
<b>COCH-ARM / FISHERS</b>	P=0.609N	P=0.500	P=0.500N	P=0.753N	P=0.753N
<b>MAX-ISO-POLY-3</b>	P=0.516N	P=0.326	P=0.157N	P=0.499	P=0.496N
<b>HISTCONT SAME RTE</b>	(e)	(e)	(e)	(e)	(e)
<b>HISTCONT ALL RTES</b>	(e)	(e)	(e)	(e)	(e)
<b>CURR VS HC SAME RTE</b>	(e)				
<b>CURR VS HC ALL RTES</b>	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>All Organs</b>					
<b>Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	3/50 (6%)	0/50 (0%)
POLY-3 RATE (b)	1/38.56	1/43.54	1/41.63	3/38.70	0/39.26
POLY-3 PERCENT (g)	2.6%	2.3%	2.4%	7.8%	0%
TERMINAL (d)	0/18 (0%)	1/31 (3%)	0/27 (0%)	2/21 (10%)	0/20 (0%)
FIRST INCIDENCE	693	734 (T)	701	677	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.504N	P=0.733N	P=0.744N	P=0.305	P=0.496N
POLY 1.5	P=0.494N	P=0.746N	P=0.751N	P=0.304	P=0.499N
POLY 6	P=0.517N	P=0.712N	P=0.731N	P=0.312	P=0.491N
COCH-ARM / FISHERS	P=0.477N	P=0.753N	P=0.753N	P=0.309	P=0.500N
MAX-ISO-POLY-3	P=0.317N	P=0.467N	P=0.478N	P=0.153	P=0.157N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

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First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>All Organs</b>					
<b>Benign Tumors</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	22/50 (44%)	36/50 (72%)	36/50 (72%)	29/50 (58%)	22/50 (44%)
POLY-3 RATE (b)	22/40.95	36/48.24	36/45.88	29/42.32	22/41.54
POLY-3 PERCENT (g)	53.7%	74.6%	78.5%	68.5%	53%
TERMINAL (d)	12/18 (67%)	21/31 (68%)	22/27 (82%)	17/21 (81%)	12/20 (60%)
FIRST INCIDENCE	586	467	406	363	541
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.029N*	P=0.026*	P=0.007**	P=0.105	P=0.563N
POLY 1.5	P=0.021N*	P=0.010**	P=0.005**	P=0.109	P=0.576N
POLY 6	P=0.046N*	P=0.083	P=0.014*	P=0.105	P=0.525N
COCH-ARM / FISHERS	P=0.017N*	P=0.004**	P=0.004**	P=0.115	P=0.580N
MAX-ISO-POLY-3	P=0.052N	P=0.021*	P=0.006**	P=0.070	P=0.471N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>All Organs</b>					
<b>Malignant Tumors</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	16/50 (32%)	15/50 (30%)	14/50 (28%)	17/50 (34%)	12/50 (24%)
POLY-3 RATE (b)	16/42.45	15/46.20	14/44.06	17/41.90	12/40.77
POLY-3 PERCENT (g)	37.7%	32.5%	31.8%	40.6%	29.4%
TERMINAL (d)	4/18 (22%)	7/31 (23%)	7/27 (26%)	7/21 (33%)	4/20 (20%)
FIRST INCIDENCE	488	285	490	330	597
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.441N	P=0.385N	P=0.361N	P=0.480	P=0.283N
POLY 1.5	P=0.387N	P=0.430N	P=0.381N	P=0.491	P=0.273N
POLY 6	P=0.506N	P=0.319N	P=0.326N	P=0.473	P=0.285N
COCH-ARM / FISHERS	P=0.305N	P=0.500N	P=0.414N	P=0.500	P=0.252N
MAX-ISO-POLY-3	P=0.395N	P=0.309N	P=0.283N	P=0.391	P=0.213N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>All Organs</b>					
<b>Malignant and Benign Tumors</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	32/50 (64%)	38/50 (76%)	39/50 (78%)	35/50 (70%)	28/50 (56%)
POLY-3 RATE (b)	32/43.83	38/49.18	39/46.92	35/45.06	28/42.51
POLY-3 PERCENT (g)	73%	77.3%	83.1%	77.7%	65.9%
TERMINAL (d)	14/18 (78%)	22/31 (71%)	23/27 (85%)	18/21 (86%)	13/20 (65%)
FIRST INCIDENCE	488	285	406	330	541
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.081N	P=0.404	P=0.161	P=0.387	P=0.302N
POLY 1.5	P=0.050N*	P=0.279	P=0.132	P=0.378	P=0.292N
POLY 6	P=0.134N	P=0.586	P=0.217	P=0.387	P=0.290N
COCH-ARM / FISHERS	P=0.024N*	P=0.138	P=0.093	P=0.335	P=0.270N
MAX-ISO-POLY-3	P=0.149N	P=0.319	P=0.109	P=0.292	P=0.223N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Adrenal Medulla</b>					
<b>Pheochromocytoma Benign</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/39.46	0/42.11	1/44.33	2/39.53	0/40.39
POLY-3 PERCENT (g)	0%	0%	2.3%	5.1%	0%
TERMINAL (d)	0/25 (0%)	0/32 (0%)	1/34 (3%)	1/27 (4%)	0/31 (0%)
FIRST INCIDENCE	---	---	725 (T)	601	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.582	(e)	P=0.523	P=0.237	(e)
POLY 1.5	P=0.579	(e)	P=0.514	P=0.236	(e)
POLY 6	P=0.591	(e)	P=0.534	P=0.241	(e)
COCH-ARM / FISHERS	P=0.586	(e)	P=0.500	P=0.247	(e)
MAX-ISO-POLY-3	P=0.328	(e)	P=0.186	P=0.075	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTEs	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Adrenal Medulla</b>					
<b>Pheochromocytoma Malignant</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/39.63	0/42.11	0/44.33	0/39.10	0/40.39
POLY-3 PERCENT (g)	2.5%	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/32 (0%)	0/34 (0%)	0/27 (0%)	0/31 (0%)
FIRST INCIDENCE	681	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)				
CURR VS HC ALL RTES	(n)				



Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Adrenal Medulla</b>					
<b>Pheochromocytoma: Benign, Complex, Malignant, NOS</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/39.63	0/42.11	1/44.33	2/39.53	0/40.39
POLY-3 PERCENT (g)	2.5%	0%	2.3%	5.1%	0%
TERMINAL (d)	0/25 (0%)	0/32 (0%)	1/34 (3%)	1/27 (4%)	0/31 (0%)
FIRST INCIDENCE	681	---	725 (T)	601	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.542N	P=0.488N	P=0.735N	P=0.499	P=0.496N
POLY 1.5	P=0.538N	P=0.493N	P=0.745N	P=0.497	P=0.500N
POLY 6	P=0.541N	P=0.479N	P=0.723N	P=0.504	P=0.489N
COCH-ARM / FISHERS	P=0.524N	P=0.500N	P=0.753N	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.383N	P=0.157N	P=0.469N	P=0.279	P=0.157N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Brain</b>					
<b>Oligodendroglioma, Glioma, or Astrocytoma</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/39.94	0/42.11	0/44.33	0/39.10	0/40.39
POLY-3 PERCENT (g)	2.5%	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/32 (0%)	0/34 (0%)	0/27 (0%)	0/31 (0%)
FIRST INCIDENCE	584	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)				
CURR VS HC ALL RTES	(n)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Heart</b>					
<b>Schwannoma Malignant</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/39.46	1/42.86	1/44.33	0/39.10	0/40.39
POLY-3 PERCENT (g)	0%	2.3%	2.3%	0%	0%
TERMINAL (d)	0/25 (0%)	0/32 (0%)	1/34 (3%)	0/27 (0%)	0/31 (0%)
FIRST INCIDENCE	---	459	725 (T)	---	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)				
CURR VS HC ALL RTES	(n)				

Experiment Number: 20403 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Zinc Carbonate, Basic  
 CAS Number: 5263-02-5

Date Report Requested: 08/06/2015  
 Time Report Requested: 13:00:00  
 First Dose M/F: 09/03/09 / 09/04/09  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Intestine Small: Jejunum Carcinoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/39.46	0/42.11	0/44.33	0/39.10	0/40.39
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/32 (0%)	0/34 (0%)	0/27 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)				
CURR VS HC ALL RTES	(n)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Intestine Small: Site Unspecified Carcinoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/39.46	0/42.11	0/44.33	0/39.10	0/40.39
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/32 (0%)	0/34 (0%)	0/27 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)				
CURR VS HC ALL RTES	(n)				

Experiment Number: 20403 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Zinc Carbonate, Basic  
 CAS Number: 5263-02-5

Date Report Requested: 08/06/2015  
 Time Report Requested: 13:00:00  
 First Dose M/F: 09/03/09 / 09/04/09  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Islets, Pancreatic Adenoma</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/49 (2%)	0/49 (0%)
POLY-3 RATE (b)	0/39.46	0/42.11	0/44.33	1/39.04	0/40.35
POLY-3 PERCENT (g)	0%	0%	0%	2.6%	0%
TERMINAL (d)	0/25 (0%)	0/32 (0%)	0/34 (0%)	1/27 (4%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	725 (T)	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)				
CURR VS HC ALL RTES	(n)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Islets, Pancreatic Carcinoma or Adenoma</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/49 (2%)	0/49 (0%)
POLY-3 RATE (b)	0/39.46	0/42.11	0/44.33	1/39.04	0/40.35
POLY-3 PERCENT (g)	0%	0%	0%	2.6%	0%
TERMINAL (d)	0/25 (0%)	0/32 (0%)	0/34 (0%)	1/27 (4%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	725 (T)	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)				
CURR VS HC ALL RTES	(n)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Mammary Gland Adenoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	3/50 (6%)	2/50 (4%)	0/50 (0%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	3/39.46	2/42.36	0/44.33	3/39.10	1/40.39
POLY-3 PERCENT (g)	7.6%	4.7%	0%	7.7%	2.5%
TERMINAL (d)	3/25 (12%)	1/32 (3%)	0/34 (0%)	3/27 (11%)	1/31 (3%)
FIRST INCIDENCE	725 (T)	659	---	725 (T)	725 (T)
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.552N	P=0.468N	P=0.099N	P=0.659	P=0.296N
POLY 1.5	P=0.540N	P=0.483N	P=0.106N	P=0.658	P=0.304N
POLY 6	P=0.560N	P=0.443N	P=0.090N	P=0.663N	P=0.280N
COCH-ARM / FISHERS	P=0.509N	P=0.500N	P=0.121N	P=0.661N	P=0.309N
MAX-ISO-POLY-3	P=0.251N	P=0.301N	P=0.037N*	P=0.495	P=0.149N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				



Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Mammary Gland Carcinoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	4/50 (8%)	4/50 (8%)	4/50 (8%)	4/50 (8%)	4/50 (8%)
POLY-3 RATE (b)	4/40.92	4/42.54	4/45.14	4/40.01	4/40.39
POLY-3 PERCENT (g)	9.8%	9.4%	8.9%	10%	9.9%
TERMINAL (d)	1/25 (4%)	3/32 (9%)	2/34 (6%)	2/27 (7%)	4/31 (13%)
FIRST INCIDENCE	540	601	483	449	725 (T)
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.507	P=0.623N	P=0.589N	P=0.632	P=0.637
POLY 1.5	P=0.522	P=0.632N	P=0.608N	P=0.634	P=0.635
POLY 6	P=0.498	P=0.605N	P=0.566N	P=0.632	P=0.642N
COCH-ARM / FISHERS	P=0.558	P=0.643N	P=0.643N	P=0.643N	P=0.643N
MAX-ISO-POLY-3	P=0.755	P=0.477N	P=0.445N	P=0.487	P=0.492
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Mammary Gland Carcinoma or Adenoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	7/50 (14%)	6/50 (12%)	4/50 (8%)	7/50 (14%)	5/50 (10%)
POLY-3 RATE (b)	7/40.92	6/42.79	4/45.14	7/40.01	5/40.39
POLY-3 PERCENT (g)	17.1%	14%	8.9%	17.5%	12.4%
TERMINAL (d)	4/25 (16%)	4/32 (13%)	2/34 (6%)	5/27 (19%)	5/31 (16%)
FIRST INCIDENCE	540	601	483	449	725 (T)
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.519	P=0.465N	P=0.206N	P=0.598	P=0.387N
POLY 1.5	P=0.541	P=0.482N	P=0.226N	P=0.601	P=0.390N
POLY 6	P=0.503	P=0.436N	P=0.185N	P=0.598	P=0.372N
COCH-ARM / FISHERS	P=0.505N	P=0.500N	P=0.262N	P=0.613N	P=0.380N
MAX-ISO-POLY-3	P=0.482N	P=0.351N	P=0.136N	P=0.481	P=0.275N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Mammary Gland Fibroadenoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	29/50 (58%)	31/50 (62%)	33/50 (66%)	31/50 (62%)	27/50 (54%)
POLY-3 RATE (b)	29/44.56	31/48.08	33/48.06	31/45.61	27/45.17
POLY-3 PERCENT (g)	65.1%	64.5%	68.7%	68%	59.8%
TERMINAL (d)	14/25 (56%)	16/32 (50%)	22/34 (65%)	15/27 (56%)	15/31 (48%)
FIRST INCIDENCE	435	323	447	179	396
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.290N	P=0.563N	P=0.441	P=0.473	P=0.379N
POLY 1.5	P=0.272N	P=0.537	P=0.379	P=0.450	P=0.409N
POLY 6	P=0.288N	P=0.475N	P=0.506	P=0.511	P=0.327N
COCH-ARM / FISHERS	P=0.207N	P=0.419	P=0.268	P=0.419	P=0.420N
MAX-ISO-POLY-3	P=0.448N	P=0.475N	P=0.358	P=0.384	P=0.300N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Mammary Gland Fibroma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/39.46	0/42.11	0/44.33	0/39.10	0/40.39
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/32 (0%)	0/34 (0%)	0/27 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)				
CURR VS HC ALL RTES	(n)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Mammary Gland</b>					
<b>Fibroma, Fibroadenoma or Adenoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	29/50 (58%)	31/50 (62%)	33/50 (66%)	31/50 (62%)	28/50 (56%)
POLY-3 RATE (b)	29/44.56	31/48.08	33/48.06	31/45.61	28/45.17
POLY-3 PERCENT (g)	65.1%	64.5%	68.7%	68%	62%
TERMINAL (d)	14/25 (56%)	16/32 (50%)	22/34 (65%)	15/27 (56%)	16/31 (52%)
FIRST INCIDENCE	435	323	447	179	396
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.379N	P=0.563N	P=0.441	P=0.473	P=0.465N
POLY 1.5	P=0.357N	P=0.537	P=0.379	P=0.450	P=0.495N
POLY 6	P=0.379N	P=0.475N	P=0.506	P=0.511	P=0.411N
COCH-ARM / FISHERS	P=0.277N	P=0.419	P=0.268	P=0.419	P=0.500N
MAX-ISO-POLY-3	P=0.563N	P=0.475N	P=0.358	P=0.384	P=0.378N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Mammary Gland</b>					
<b>Fibroma, Fibroadenoma, Carcinoma, or Adenoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	33/50 (66%)	33/50 (66%)	35/50 (70%)	34/50 (68%)	32/50 (64%)
POLY-3 RATE (b)	33/46.02	33/48.08	35/48.87	34/46.37	32/45.17
POLY-3 PERCENT (g)	71.7%	68.6%	71.6%	73.3%	70.8%
TERMINAL (d)	15/25 (60%)	18/32 (56%)	22/34 (65%)	17/27 (63%)	20/31 (65%)
FIRST INCIDENCE	435	323	447	179	396
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.489	P=0.459N	P=0.588N	P=0.524	P=0.557N
POLY 1.5	P=0.531N	P=0.502N	P=0.542	P=0.521	P=0.548N
POLY 6	P=0.456	P=0.412N	P=0.552N	P=0.527	P=0.549N
COCH-ARM / FISHERS	P=0.389N	P=0.583N	P=0.415	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.696	P=0.373N	P=0.496N	P=0.429	P=0.462N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Pancreas</b>					
<b>Adenoma</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	1/50 (2%)	0/48 (0%)	0/49 (0%)	0/49 (0%)	0/49 (0%)
POLY-3 RATE (b)	1/39.46	0/40.88	0/43.63	0/39.04	0/40.35
POLY-3 PERCENT (g)	2.5%	0%	0%	0%	0%
TERMINAL (d)	1/25 (4%)	0/32 (0%)	0/34 (0%)	0/27 (0%)	0/31 (0%)
FIRST INCIDENCE	725 (T)	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)				
CURR VS HC ALL RTES	(n)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Pancreas</b>					
<b>Carcinoma or Adenoma</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	1/50 (2%)	0/48 (0%)	0/49 (0%)	0/49 (0%)	0/49 (0%)
POLY-3 RATE (b)	1/39.46	0/40.88	0/43.63	0/39.04	0/40.35
POLY-3 PERCENT (g)	2.5%	0%	0%	0%	0%
TERMINAL (d)	1/25 (4%)	0/32 (0%)	0/34 (0%)	0/27 (0%)	0/31 (0%)
FIRST INCIDENCE	725 (T)	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)				
CURR VS HC ALL RTES	(n)				



Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Pituitary Gland: Pars Distalis or Unspecified Site Adenoma</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	11/50 (22%)	13/50 (26%)	9/50 (18%)	3/50 (6%)	8/50 (16%)
POLY-3 RATE (b)	11/40.53	13/43.02	9/45.36	3/39.25	8/41.82
POLY-3 PERCENT (g)	27.1%	30.2%	19.8%	7.6%	19.1%
TERMINAL (d)	6/25 (24%)	9/32 (28%)	4/34 (12%)	2/27 (7%)	4/31 (13%)
FIRST INCIDENCE	609	601	615	687	562
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.096N	P=0.472	P=0.293N	P=0.020N*	P=0.273N
POLY 1.5	P=0.090N	P=0.442	P=0.334N	P=0.020N*	P=0.294N
POLY 6	P=0.099N	P=0.519	P=0.248N	P=0.020N*	P=0.235N
COCH-ARM / FISHERS	P=0.076N	P=0.408	P=0.402N	P=0.020N*	P=0.306N
MAX-ISO-POLY-3	P=0.087N	P=0.380	P=0.223N	P=0.010N**	P=0.195N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Pituitary Gland: Pars Distalis or Unspecified Site Carcinoma or Adenoma</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	12/50 (24%)	13/50 (26%)	10/50 (20%)	3/50 (6%)	8/50 (16%)
POLY-3 RATE (b)	12/40.53	13/43.02	10/45.87	3/39.25	8/41.82
POLY-3 PERCENT (g)	29.6%	30.2%	21.8%	7.6%	19.1%
TERMINAL (d)	7/25 (28%)	9/32 (28%)	4/34 (12%)	2/27 (7%)	4/31 (13%)
FIRST INCIDENCE	609	601	572	687	562
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.065N	P=0.571	P=0.280N	P=0.011N*	P=0.195N
POLY 1.5	P=0.060N	P=0.538	P=0.326N	P=0.011N*	P=0.215N
POLY 6	P=0.069N	P=0.573N	P=0.227N	P=0.010N**	P=0.163N
COCH-ARM / FISHERS	P=0.049N*	P=0.500	P=0.405N	P=0.011N*	P=0.227N
MAX-ISO-POLY-3	P=0.069N	P=0.475	P=0.215N	P=0.005N**	P=0.134N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Pituitary Gland: Pars Intermedia Adenoma</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/39.46	0/42.11	0/44.33	0/39.10	0/40.39
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/32 (0%)	0/34 (0%)	0/27 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)	(n)
HISTCONT ALL RTEs	(n)	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)				
CURR VS HC ALL RTEs	(n)				

Experiment Number: 20403 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Zinc Carbonate, Basic  
 CAS Number: 5263-02-5

Date Report Requested: 08/06/2015  
 Time Report Requested: 13:00:00  
 First Dose M/F: 09/03/09 / 09/04/09  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Pituitary Gland: Pars Intermedia Carcinoma or Adenoma</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/39.46	0/42.11	0/44.33	0/39.10	0/40.39
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/32 (0%)	0/34 (0%)	0/27 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)				
CURR VS HC ALL RTES	(n)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Skin</b>					
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/39.46	0/42.11	0/44.33	0/39.10	0/40.39
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/32 (0%)	0/34 (0%)	0/27 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)				
CURR VS HC ALL RTES	(n)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Skin</b>					
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/39.46	0/42.11	0/44.33	0/39.10	0/40.39
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/32 (0%)	0/34 (0%)	0/27 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)				
CURR VS HC ALL RTES	(n)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Skin Fibroma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/39.46	0/42.11	1/44.52	0/39.10	0/40.39
POLY-3 PERCENT (g)	0%	0%	2.3%	0%	0%
TERMINAL (d)	0/25 (0%)	0/32 (0%)	0/34 (0%)	0/27 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	676	---	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)				
CURR VS HC ALL RTES	(n)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Skin</b>					
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/39.46	0/42.11	1/44.52	0/39.10	0/40.39
POLY-3 PERCENT (g)	0%	0%	2.3%	0%	0%
TERMINAL (d)	0/25 (0%)	0/32 (0%)	0/34 (0%)	0/27 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	676	---	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)				
CURR VS HC ALL RTES	(n)				



Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Skin</b>					
<b>Fibrosarcoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/39.46	0/42.11	0/44.33	0/39.10	0/40.39
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/32 (0%)	0/34 (0%)	0/27 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)				
CURR VS HC ALL RTES	(n)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Skin</b>					
<b>Keratoacanthoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/39.46	0/42.11	0/44.33	0/39.10	0/40.39
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/32 (0%)	0/34 (0%)	0/27 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)				
CURR VS HC ALL RTES	(n)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Skin</b>					
<b>Lipoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/39.46	0/42.11	0/44.33	0/39.10	0/40.39
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/32 (0%)	0/34 (0%)	0/27 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)				
CURR VS HC ALL RTES	(n)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Skin</b>					
<b>Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/39.46	0/42.11	0/44.33	0/39.10	0/40.39
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/32 (0%)	0/34 (0%)	0/27 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)				
CURR VS HC ALL RTES	(n)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Skin</b>					
<b>Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/39.46	0/42.11	0/44.33	0/39.10	0/40.39
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/32 (0%)	0/34 (0%)	0/27 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)				
CURR VS HC ALL RTES	(n)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Skin</b>					
<b>Squamous Cell Papilloma, Papilloma, or Keratoacanthoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/39.46	0/42.11	0/44.33	0/39.10	0/40.39
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/32 (0%)	0/34 (0%)	0/27 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)				
CURR VS HC ALL RTES	(n)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Stomach, Forestomach Squamous Cell Carcinoma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/39.46	0/42.11	0/44.33	0/39.10	0/40.39
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/32 (0%)	0/34 (0%)	0/27 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)				
CURR VS HC ALL RTES	(n)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
Thyroid Gland: C-Cell Adenoma					
<b>TUMOR RATES</b>					
OVERALL (a)	1/50 (2%)	2/49 (4%)	1/50 (2%)	1/50 (2%)	3/48 (6%)
POLY-3 RATE (b)	1/39.46	2/41.45	1/44.52	1/39.25	3/40.27
POLY-3 PERCENT (g)	2.5%	4.8%	2.3%	2.6%	7.5%
TERMINAL (d)	1/25 (4%)	2/32 (6%)	0/34 (0%)	0/27 (0%)	1/31 (3%)
FIRST INCIDENCE	725 (T)	725 (T)	676	687	610
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.203	P=0.517	P=0.733N	P=0.760	P=0.312
POLY 1.5	P=0.205	P=0.506	P=0.744N	P=0.759	P=0.301
POLY 6	P=0.206	P=0.536	P=0.719N	P=0.759N	P=0.333
COCH-ARM / FISHERS	P=0.211	P=0.492	P=0.753N	P=0.753N	P=0.293
MAX-ISO-POLY-3	P=0.249	P=0.300	P=0.467N	P=0.498	P=0.162
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				



Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Thyroid Gland: C-Cell Carcinoma</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	1/50 (2%)	0/49 (0%)	0/50 (0%)	2/50 (4%)	0/48 (0%)
POLY-3 RATE (b)	1/39.56	0/41.45	0/44.33	2/39.62	0/39.82
POLY-3 PERCENT (g)	2.5%	0%	0%	5.1%	0%
TERMINAL (d)	0/25 (0%)	0/32 (0%)	0/34 (0%)	1/27 (4%)	0/31 (0%)
FIRST INCIDENCE	700	---	---	568	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.578	P=0.491N	P=0.477N	P=0.501	P=0.499N
POLY 1.5	P=0.579	P=0.497N	P=0.486N	P=0.498	P=0.504N
POLY 6	P=0.582	P=0.481N	P=0.467N	P=0.507	P=0.489N
COCH-ARM / FISHERS	P=0.587	P=0.505N	P=0.500N	P=0.500	P=0.510N
MAX-ISO-POLY-3	P=0.325N	P=0.159N	P=0.157N	P=0.280	P=0.160N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>Thyroid Gland: C-Cell Carcinoma or Adenoma</b>					
<b>TUMOR RATES</b>					
OVERALL (a)	2/50 (4%)	2/49 (4%)	1/50 (2%)	3/50 (6%)	3/48 (6%)
POLY-3 RATE (b)	2/39.56	2/41.45	1/44.52	3/39.77	3/40.27
POLY-3 PERCENT (g)	5.1%	4.8%	2.3%	7.5%	7.5%
TERMINAL (d)	1/25 (4%)	2/32 (6%)	0/34 (0%)	1/27 (4%)	1/31 (3%)
FIRST INCIDENCE	700	725 (T)	676	568	610
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.212	P=0.678N	P=0.459N	P=0.502	P=0.508
POLY 1.5	P=0.214	P=0.689N	P=0.475N	P=0.498	P=0.494
POLY 6	P=0.216	P=0.659N	P=0.439N	P=0.512	P=0.533
COCH-ARM / FISHERS	P=0.221	P=0.684	P=0.500N	P=0.500	P=0.480
MAX-ISO-POLY-3	P=0.382	P=0.481N	P=0.257N	P=0.325	P=0.333
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTEs	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
Uterus					
Polyp Stromal					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	3/50 (6%)	2/50 (4%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	3/39.82	2/42.11	1/44.57	0/39.10	2/40.72
POLY-3 PERCENT (g)	7.5%	4.8%	2.2%	0%	4.9%
TERMINAL (d)	1/25 (4%)	2/32 (6%)	0/34 (0%)	0/27 (0%)	1/31 (3%)
FIRST INCIDENCE	677	725 (T)	663	---	635
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.481N	P=0.474N	P=0.266N	P=0.121N	P=0.490N
POLY 1.5	P=0.469N	P=0.486N	P=0.281N	P=0.121N	P=0.498N
POLY 6	P=0.493N	P=0.456N	P=0.248N	P=0.120N	P=0.471N
COCH-ARM / FISHERS	P=0.444N	P=0.500N	P=0.309N	P=0.121N	P=0.500N
MAX-ISO-POLY-3	P=0.224N	P=0.305N	P=0.140N	P=0.040N*	P=0.315N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Zinc Carbonate, Basic  
 CAS Number: 5263-02-5

Date Report Requested: 08/06/2015  
 Time Report Requested: 13:00:00  
 First Dose M/F: 09/03/09 / 09/04/09  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>All Organs</b>					
<b>Hemangiosarcoma or Hemangioma</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/39.46	0/42.11	0/44.33	1/39.62	1/40.39
POLY-3 PERCENT (g)	0%	0%	0%	2.5%	2.5%
TERMINAL (d)	0/25 (0%)	0/32 (0%)	0/34 (0%)	0/27 (0%)	1/31 (3%)
FIRST INCIDENCE	---	---	---	568	725 (T)
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)				
CURR VS HC ALL RTES	(n)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>All Organs</b>					
<b>Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/40.02	1/42.86	0/44.33	0/39.10	0/40.39
POLY-3 PERCENT (g)	2.5%	2.3%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/32 (0%)	0/34 (0%)	0/27 (0%)	0/31 (0%)
FIRST INCIDENCE	549	459	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)				
CURR VS HC ALL RTES	(n)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>All Organs</b>					
<b>Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/39.46	1/42.11	0/44.33	1/39.36	0/40.39
POLY-3 PERCENT (g)	0%	2.4%	0%	2.5%	0%
TERMINAL (d)	0/25 (0%)	1/32 (3%)	0/34 (0%)	0/27 (0%)	0/31 (0%)
FIRST INCIDENCE	---	725 (T)	---	654	---
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)				
CURR VS HC ALL RTES	(n)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>All Organs</b>					
<b>Benign Tumors</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
<b>OVERALL (a)</b>	35/50 (70%)	39/50 (78%)	39/50 (78%)	34/50 (68%)	32/50 (64%)
<b>POLY-3 RATE (b)</b>	35/45.41	39/48.08	39/48.79	34/46.13	32/46.00
<b>POLY-3 PERCENT (g)</b>	77.1%	81.1%	79.9%	73.7%	69.6%
<b>TERMINAL (d)</b>	17/25 (68%)	24/32 (75%)	25/34 (74%)	17/27 (63%)	18/31 (58%)
<b>FIRST INCIDENCE</b>	435	323	447	179	396
<b>HC TUMORS SAME ROUTE</b>	0/0 (0%)				
<b>HC TUMORS ALL ROUTES</b>	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
<b>POLY 3</b>	P=0.084N	P=0.408	P=0.464	P=0.446N	P=0.278N
<b>POLY 1.5</b>	P=0.081N	P=0.343	P=0.385	P=0.465N	P=0.313N
<b>POLY 6</b>	P=0.079N	P=0.481	P=0.541	P=0.425N	P=0.229N
<b>COCH-ARM / FISHERS</b>	P=0.061N	P=0.247	P=0.247	P=0.500N	P=0.335N
<b>MAX-ISO-POLY-3</b>	P=0.154N	P=0.315	P=0.368	P=0.350N	P=0.204N
<b>HISTCONT SAME RTE</b>	(e)	(e)	(e)	(e)	(e)
<b>HISTCONT ALL RTES</b>	(e)	(e)	(e)	(e)	(e)
<b>CURR VS HC SAME RTE</b>	(e)				
<b>CURR VS HC ALL RTES</b>	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>All Organs</b>					
<b>Malignant Tumors</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	11/50 (22%)	8/50 (16%)	8/50 (16%)	11/50 (22%)	11/50 (22%)
POLY-3 RATE (b)	11/42.23	8/44.17	8/46.13	11/42.58	11/41.91
POLY-3 PERCENT (g)	26.1%	18.1%	17.3%	25.8%	26.2%
TERMINAL (d)	4/25 (16%)	5/32 (16%)	4/34 (12%)	3/27 (11%)	8/31 (26%)
FIRST INCIDENCE	540	350	483	449	362
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.208	P=0.264N	P=0.231N	P=0.589N	P=0.590
POLY 1.5	P=0.224	P=0.279N	P=0.256N	P=0.597N	P=0.586
POLY 6	P=0.200	P=0.246N	P=0.206N	P=0.573N	P=0.593N
COCH-ARM / FISHERS	P=0.272	P=0.306N	P=0.306N	P=0.595N	P=0.595N
MAX-ISO-POLY-3	P=0.374	P=0.190N	P=0.169N	P=0.491N	P=0.491
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				



Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

## P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females				
	Control (38ppm)	3.5ppm SevZnDef	7ppm ZnDef	250ppmModZnExc	500ppm ZnExc
<b>All Organs</b>					
<b>Malignant and Benign Tumors</b>					
<b>TUMOR RATES</b>	#	#	#	#	#
OVERALL (a)	40/50 (80%)	41/50 (82%)	42/50 (84%)	40/50 (80%)	39/50 (78%)
POLY-3 RATE (b)	40/47.44	41/49.72	42/50.00	40/48.35	39/47.25
POLY-3 PERCENT (g)	84.3%	82.5%	84%	82.7%	82.5%
TERMINAL (d)	18/25 (72%)	24/32 (75%)	26/34 (77%)	19/27 (70%)	23/31 (74%)
FIRST INCIDENCE	435	323	447	179	362
HC TUMORS SAME ROUTE	0/0 (0%)				
HC TUMORS ALL ROUTES	0/0 (0%)				
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.469N	P=0.511N	P=0.592N	P=0.526N	P=0.517N
POLY 1.5	P=0.430N	P=0.558N	P=0.566	P=0.546N	P=0.521N
POLY 6	P=0.477N	P=0.496N	P=0.560N	P=0.518N	P=0.506N
COCH-ARM / FISHERS	P=0.296N	P=0.500	P=0.398	P=0.598N	P=0.500N
MAX-ISO-POLY-3	P=0.683N	P=0.405N	P=0.483N	P=0.417N	P=0.407N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)				
CURR VS HC ALL RTES	(e)				

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 13:00:00

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

**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.
- (h) Historical Controls statistic is not calculated when the HC Poly-3 rate is higher than the Poly-3 rates for all dose groups.
- (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 \*\*\*