

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: 11/22/2015
Time Report Requested: 17:30:03
First Dose M/F: 09/03/09 / 09/04/09
Lab: BAT

Custom Report - Zinc Excess

NTP Study Number:	C20403		
Lock Date:	04/05/2013		
Cage Range:	ALL		
Date Range:	ALL		
Reasons For Removal:	25021 TSAC	25020 NATD	25019 MSAC
Removal Date Range:	ALL		
Treatment Groups:	Include 001 Control (38ppm) Include 008 250ppmModZnExc	Include 002 Control (38ppm) Include 009 500ppm ZnExc	Include 007 250ppmModZnExc Include 010 500ppm ZnExc
Study Gender:	Both		
TDMSE Version:	2.5.0.0_sfh		
PWG Approval Date:	09/08/2015		

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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

Islets, Pancreatic

Pancreas

Pituitary Gland

Thyroid Gland

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

MALE RATS

Organ

Pituitary Gland: Pars Distalis or Unspecified Site

Skin

Morphology

Adenoma

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

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

Keratoacanthoma

Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma

FEMALE RATS

Organ

Pituitary Gland: Pars Distalis or Unspecified Site

Uterus

Morphology

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)	250ppmModZnExc	500ppm ZnExc
Adrenal Medulla			
Pheochromocytoma Benign			
<hr/>			
TUMOR RATES			
OVERALL (a)	5/50 (10%)	10/50 (20%)	3/50 (6%)
POLY-3 RATE (b)	5/39.10	10/39.99	3/39.34
POLY-3 PERCENT (g)	12.8%	25%	7.6%
TERMINAL (d)	2/18 (11%)	6/21 (29%)	2/20 (10%)
FIRST INCIDENCE	652	363	715
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
<hr/>			
STATISTICAL TESTS			
POLY 3	P=0.311N	P=0.133	P=0.351N
POLY 1.5	P=0.318N	P=0.131	P=0.355N
POLY 6	P=0.293N	P=0.138	P=0.340N
COCH-ARM / FISHERS	P=0.322N	P=0.131	P=0.357N
MAX-ISO-POLY-3	P=0.107N	P=0.082	P=0.226N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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)	250ppmModZnExc	500ppm ZnExc
Adrenal Medulla			
Pheochromocytoma Malignant			
TUMOR RATES			
OVERALL (a)	1/50 (2%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	1/38.40	1/38.57	3/39.57
POLY-3 PERCENT (g)	2.6%	2.6%	7.6%
TERMINAL (d)	1/18 (6%)	0/21 (0%)	1/20 (5%)
FIRST INCIDENCE	734 (T)	713	669
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	P=0.209	P=0.760N	P=0.315
POLY 1.5	P=0.205	P=0.761	P=0.309
POLY 6	P=0.219	P=0.756N	P=0.330
COCH-ARM / FISHERS	P=0.202	P=0.753N	P=0.309
MAX-ISO-POLY-3	P=0.198	P=0.498N	P=0.164
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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)	250ppmModZnExc	500ppm ZnExc
Adrenal Medulla			
Pheochromocytoma: Benign, Complex, Malignant, NOS			
<hr/>			
TUMOR RATES			
OVERALL (a)	6/50 (12%)	11/50 (22%)	5/50 (10%)
POLY-3 RATE (b)	6/39.10	11/40.08	5/39.65
POLY-3 PERCENT (g)	15.4%	27.5%	12.6%
TERMINAL (d)	3/18 (17%)	6/21 (29%)	2/20 (10%)
FIRST INCIDENCE	652	363	669
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
<hr/>			
STATISTICAL TESTS			
POLY 3	P=0.427N	P=0.146	P=0.490N
POLY 1.5	P=0.438N	P=0.144	P=0.497N
POLY 6	P=0.400N	P=0.154	P=0.472N
COCH-ARM / FISHERS	P=0.444N	P=0.143	P=0.500N
MAX-ISO-POLY-3	P=0.215N	P=0.094	P=0.363N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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)	250ppmModZnExc	500ppm ZnExc
Intestine Small: Jejunum Carcinoma			
<hr/>			
TUMOR RATES	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	1/38.89	1/38.69	3/39.42
POLY-3 PERCENT (g)	2.6%	2.6%	7.6%
TERMINAL (d)	0/18 (0%)	0/21 (0%)	0/20 (0%)
FIRST INCIDENCE	586	680	715
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
<hr/>			
STATISTICAL TESTS			
POLY 3	P=0.204	P=0.760	P=0.309
POLY 1.5	P=0.202	P=0.759	P=0.306
POLY 6	P=0.211	P=0.759N	P=0.319
COCH-ARM / FISHERS	P=0.202	P=0.753N	P=0.309
MAX-ISO-POLY-3	P=0.189	P=0.498	P=0.158
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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)	250ppmModZnExc	500ppm ZnExc
Intestine Small: Site Unspecified Carcinoma			
<hr/>			
TUMOR RATES	#	#	#
OVERALL (a)	2/50 (4%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	2/38.89	1/38.69	3/39.42
POLY-3 PERCENT (g)	5.1%	2.6%	7.6%
TERMINAL (d)	1/18 (6%)	0/21 (0%)	0/20 (0%)
FIRST INCIDENCE	586	680	715
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
<hr/>			
STATISTICAL TESTS			
POLY 3	P=0.404	P=0.502N	P=0.506
POLY 1.5	P=0.401	P=0.502N	P=0.502
POLY 6	P=0.413	P=0.496N	P=0.519
COCH-ARM / FISHERS	P=0.399	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.318	P=0.282N	P=0.329
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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)	250ppmModZnExc	500ppm ZnExc
<hr/>			
Islets, Pancreatic Adenoma			
<hr/>			
TUMOR RATES			
OVERALL (a)	2/50 (4%)	2/49 (4%)	2/49 (4%)
POLY-3 RATE (b)	2/38.40	2/38.30	2/39.21
POLY-3 PERCENT (g)	5.2%	5.2%	5.1%
TERMINAL (d)	2/18 (11%)	1/21 (5%)	1/20 (5%)
FIRST INCIDENCE	734 (T)	551	717
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
<hr/>			
STATISTICAL TESTS			
POLY 3	P=0.594N	P=0.694	P=0.688N
POLY 1.5	P=0.601N	P=0.689	P=0.694N
POLY 6	P=0.581N	P=0.685N	P=0.674N
COCH-ARM / FISHERS	P=0.593	P=0.684	P=0.684
MAX-ISO-POLY-3	P=0.656N	P=0.498	P=0.491N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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)	250ppmModZnExc	500ppm ZnExc
Islets, Pancreatic Carcinoma or Adenoma			
TUMOR RATES			
OVERALL (a)	3/50 (6%)	3/49 (6%)	3/49 (6%)
POLY-3 RATE (b)	3/38.69	3/38.34	3/39.21
POLY-3 PERCENT (g)	7.8%	7.8%	7.7%
TERMINAL (d)	2/18 (11%)	1/21 (5%)	2/20 (10%)
FIRST INCIDENCE	656	551	717
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	P=0.578N	P=0.660	P=0.658N
POLY 1.5	P=0.583	P=0.655	P=0.662
POLY 6	P=0.565N	P=0.657N	P=0.644N
COCH-ARM / FISHERS	P=0.573	P=0.651	P=0.651
MAX-ISO-POLY-3	P=0.655N	P=0.495	P=0.493N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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)	250ppmModZnExc	500ppm ZnExc
Mammary Gland Adenoma			
TUMOR RATES	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/38.40	0/38.48	0/39.26
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/18 (0%)	0/21 (0%)	0/20 (0%)
FIRST INCIDENCE	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)		
CURR VS HC ALL RTES	(n)		

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 TERMINAL SACRIFICE AT 105 WEEKS**

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

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

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

DOSE	Males		
	Control (38ppm)	250ppmModZnExc	500ppm ZnExc
Mammary Gland Fibroadenoma			
<hr/>			
TUMOR RATES	#	#	#
OVERALL (a)	3/50 (6%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	3/39.17	1/38.48	1/39.86
POLY-3 PERCENT (g)	7.7%	2.6%	2.5%
TERMINAL (d)	0/18 (0%)	1/21 (5%)	0/20 (0%)
FIRST INCIDENCE	638	734 (T)	541
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
<hr/>			
STATISTICAL TESTS			
POLY 3	P=0.198N	P=0.310N	P=0.298N
POLY 1.5	P=0.200N	P=0.309N	P=0.302N
POLY 6	P=0.193N	P=0.309N	P=0.289N
COCH-ARM / FISHERS	P=0.202N	P=0.309N	P=0.309N
MAX-ISO-POLY-3	P=0.179N	P=0.159N	P=0.150N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTEs	(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)	250ppmModZnExc	500ppm ZnExc
Mammary Gland			
Fibroma, Fibroadenoma or Adenoma			
<hr/>			
TUMOR RATES	#	#	#
OVERALL (a)	3/50 (6%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	3/39.17	2/38.48	2/39.86
POLY-3 PERCENT (g)	7.7%	5.2%	5%
TERMINAL (d)	0/18 (0%)	2/21 (10%)	1/20 (5%)
FIRST INCIDENCE	638	734 (T)	541
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
<hr/>			
STATISTICAL TESTS			
POLY 3	P=0.400N	P=0.508N	P=0.492N
POLY 1.5	P=0.404N	P=0.506N	P=0.497N
POLY 6	P=0.391N	P=0.508N	P=0.482N
COCH-ARM / FISHERS	P=0.406N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.431N	P=0.331N	P=0.317N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)		
CURR VS HC ALL RTEs	(e)		

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DOSE	Males		
	Control (38ppm)	250ppmModZnExc	500ppm ZnExc
Mammary Gland			
Fibroma, Fibroadenoma, Carcinoma, or Adenoma			
TUMOR RATES	#	#	#
OVERALL (a)	3/50 (6%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	3/39.17	2/38.48	2/39.86
POLY-3 PERCENT (g)	7.7%	5.2%	5%
TERMINAL (d)	0/18 (0%)	2/21 (10%)	1/20 (5%)
FIRST INCIDENCE	638	734 (T)	541
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	P=0.400N	P=0.508N	P=0.492N
POLY 1.5	P=0.404N	P=0.506N	P=0.497N
POLY 6	P=0.391N	P=0.508N	P=0.482N
COCH-ARM / FISHERS	P=0.406N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.431N	P=0.331N	P=0.317N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
<hr/>			
Pancreas Adenoma			
<hr/>			
TUMOR RATES			
OVERALL (a)	11/49 (22%)	13/48 (27%)	10/48 (21%)
POLY-3 RATE (b)	11/38.72	13/37.46	10/38.28
POLY-3 PERCENT (g)	28.4%	34.7%	26.1%
TERMINAL (d)	8/18 (44%)	11/21 (52%)	9/20 (45%)
FIRST INCIDENCE	652	648	729
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
<hr/>			
STATISTICAL TESTS			
POLY 3	P=0.462N	P=0.363	P=0.512N
POLY 1.5	P=0.468N	P=0.369	P=0.517N
POLY 6	P=0.446N	P=0.370	P=0.500N
COCH-ARM / FISHERS	P=0.475N	P=0.385	P=0.521N
MAX-ISO-POLY-3	P=0.414N	P=0.276	P=0.408N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
Pancreas			
Carcinoma or Adenoma			
<hr/>			
TUMOR RATES			
OVERALL (a)	11/49 (22%)	13/48 (27%)	10/48 (21%)
POLY-3 RATE (b)	11/38.72	13/37.46	10/38.28
POLY-3 PERCENT (g)	28.4%	34.7%	26.1%
TERMINAL (d)	8/18 (44%)	11/21 (52%)	9/20 (45%)
FIRST INCIDENCE	652	648	729
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
<hr/>			
STATISTICAL TESTS			
POLY 3	P=0.462N	P=0.363	P=0.512N
POLY 1.5	P=0.468N	P=0.369	P=0.517N
POLY 6	P=0.446N	P=0.370	P=0.500N
COCH-ARM / FISHERS	P=0.475N	P=0.385	P=0.521N
MAX-ISO-POLY-3	P=0.414N	P=0.276	P=0.408N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
Pituitary Gland: Pars Distalis or Unspecified Site Adenoma			
TUMOR RATES			
OVERALL (a)	2/50 (4%)	7/50 (14%)	6/49 (12%)
POLY-3 RATE (b)	2/38.63	7/39.65	6/39.58
POLY-3 PERCENT (g)	5.2%	17.7%	15.2%
TERMINAL (d)	1/18 (6%)	2/21 (10%)	2/20 (10%)
FIRST INCIDENCE	673	461	645
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	P=0.128	P=0.082	P=0.138
POLY 1.5	P=0.119	P=0.080	P=0.131
POLY 6	P=0.151	P=0.088	P=0.155
COCH-ARM / FISHERS	P=0.115	P=0.080	P=0.128
MAX-ISO-POLY-3	P=0.094	P=0.041*	P=0.074
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
Pituitary Gland: Pars Distalis or Unspecified Site Carcinoma or Adenoma			
TUMOR RATES			
OVERALL (a)	3/50 (6%)	7/50 (14%)	6/49 (12%)
POLY-3 RATE (b)	3/39.34	7/39.65	6/39.58
POLY-3 PERCENT (g)	7.6%	17.7%	15.2%
TERMINAL (d)	1/18 (6%)	2/21 (10%)	2/20 (10%)
FIRST INCIDENCE	488	461	645
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	P=0.209	P=0.156	P=0.242
POLY 1.5	P=0.201	P=0.156	P=0.235
POLY 6	P=0.236	P=0.163	P=0.263
COCH-ARM / FISHERS	P=0.199	P=0.159	P=0.233
MAX-ISO-POLY-3	P=0.176	P=0.089	P=0.147
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
Skin			
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma			
TUMOR RATES	#	#	#
OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/38.89	1/38.57	1/39.53
POLY-3 PERCENT (g)	5.1%	2.6%	2.5%
TERMINAL (d)	1/18 (6%)	0/21 (0%)	0/20 (0%)
FIRST INCIDENCE	586	713	660
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	P=0.375N	P=0.503N	P=0.494N
POLY 1.5	P=0.378N	P=0.503N	P=0.498N
POLY 6	P=0.368N	P=0.498N	P=0.484N
COCH-ARM / FISHERS	P=0.378N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.369N	P=0.283N	P=0.276N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
Skin			
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma			
TUMOR RATES	#	#	#
OVERALL (a)	5/50 (10%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	5/39.02	1/38.57	3/39.95
POLY-3 PERCENT (g)	12.8%	2.6%	7.5%
TERMINAL (d)	3/18 (17%)	0/21 (0%)	0/20 (0%)
FIRST INCIDENCE	586	713	649
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	P=0.255N	P=0.102N	P=0.342N
POLY 1.5	P=0.260N	P=0.102N	P=0.351N
POLY 6	P=0.244N	P=0.097N	P=0.320N
COCH-ARM / FISHERS	P=0.264N	P=0.102N	P=0.357N
MAX-ISO-POLY-3	P=0.136N	P=0.045N*	P=0.221N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
<hr/>			
Skin Fibroma			
<hr/>			
TUMOR RATES	#	#	#
OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/38.53	1/38.48	0/39.26
POLY-3 PERCENT (g)	5.2%	2.6%	0%
TERMINAL (d)	1/18 (6%)	1/21 (5%)	0/20 (0%)
FIRST INCIDENCE	701	734 (T)	---
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
<hr/>			
STATISTICAL TESTS			
POLY 3	P=0.139N	P=0.500N	P=0.232N
POLY 1.5	P=0.141N	P=0.501N	P=0.235N
POLY 6	P=0.135N	P=0.495N	P=0.225N
COCH-ARM / FISHERS	P=0.142N	P=0.500N	P=0.247N
MAX-ISO-POLY-3	P=0.103N	P=0.280N	P=0.075N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
Skin			
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma			
<hr/>			
TUMOR RATES	#	#	#
OVERALL (a)	3/50 (6%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	3/39.14	1/38.48	0/39.26
POLY-3 PERCENT (g)	7.7%	2.6%	0%
TERMINAL (d)	1/18 (6%)	1/21 (5%)	0/20 (0%)
FIRST INCIDENCE	538	734 (T)	---
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
<hr/>			
STATISTICAL TESTS			
POLY 3	P=0.059N	P=0.310N	P=0.117N
POLY 1.5	P=0.060N	P=0.309N	P=0.119N
POLY 6	P=0.057N	P=0.307N	P=0.113N
COCH-ARM / FISHERS	P=0.060N	P=0.309N	P=0.121N
MAX-ISO-POLY-3	P=0.039N*	P=0.159N	P=0.037N*
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTEs	(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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
Skin			
Keratoacanthoma			
TUMOR RATES	#	#	#
OVERALL (a)	3/50 (6%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	3/38.53	0/38.48	1/39.37
POLY-3 PERCENT (g)	7.8%	0%	2.5%
TERMINAL (d)	2/18 (11%)	0/21 (0%)	0/20 (0%)
FIRST INCIDENCE	701	---	707
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	P=0.172N	P=0.118N	P=0.296N
POLY 1.5	P=0.174N	P=0.119N	P=0.302N
POLY 6	P=0.169N	P=0.114N	P=0.284N
COCH-ARM / FISHERS	P=0.176N	P=0.121N	P=0.309N
MAX-ISO-POLY-3	P=0.078N	P=0.037N*	P=0.149N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
Skin			
Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma			
TUMOR RATES	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/38.40	0/38.48	2/39.84
POLY-3 PERCENT (g)	2.6%	0%	5%
TERMINAL (d)	1/18 (6%)	0/21 (0%)	0/20 (0%)
FIRST INCIDENCE	734 (T)	---	649
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	P=0.368	P=0.500N	P=0.513
POLY 1.5	P=0.364	P=0.500N	P=0.505
POLY 6	P=0.378	P=0.496N	P=0.529
COCH-ARM / FISHERS	P=0.360	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.214	P=0.158N	P=0.294
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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

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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)	250ppmModZnExc	500ppm ZnExc
Skin			
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma			
<hr/>			
TUMOR RATES	#	#	#
OVERALL (a)	3/50 (6%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	3/38.53	0/38.48	2/39.67
POLY-3 PERCENT (g)	7.8%	0%	5%
TERMINAL (d)	2/18 (11%)	0/21 (0%)	0/20 (0%)
FIRST INCIDENCE	701	---	649
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
<hr/>			
STATISTICAL TESTS			
POLY 3	P=0.386N	P=0.118N	P=0.487N
POLY 1.5	P=0.388N	P=0.119N	P=0.495N
POLY 6	P=0.380N	P=0.114N	P=0.468N
COCH-ARM / FISHERS	P=0.390N	P=0.121N	P=0.500N
MAX-ISO-POLY-3	P=0.178N	P=0.037N*	P=0.313N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
Thyroid Gland: C-Cell Adenoma			
TUMOR RATES			
OVERALL (a)	2/50 (4%)	2/50 (4%)	2/49 (4%)
POLY-3 RATE (b)	2/38.83	2/38.48	2/38.84
POLY-3 PERCENT (g)	5.2%	5.2%	5.2%
TERMINAL (d)	1/18 (6%)	2/21 (10%)	1/20 (5%)
FIRST INCIDENCE	611	734 (T)	597
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	P=0.602N	P=0.692	P=0.695N
POLY 1.5	P=0.596	P=0.691	P=0.690
POLY 6	P=0.590N	P=0.695N	P=0.684N
COCH-ARM / FISHERS	P=0.593	P=0.691N	P=0.684
MAX-ISO-POLY-3	P=0.663N	P=0.496	P=0.499N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTEs	(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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
Thyroid Gland: C-Cell Carcinoma			
TUMOR RATES			
OVERALL (a)	1/50 (2%)	2/50 (4%)	1/49 (2%)
POLY-3 RATE (b)	1/38.41	2/38.48	1/38.38
POLY-3 PERCENT (g)	2.6%	5.2%	2.6%
TERMINAL (d)	0/18 (0%)	2/21 (10%)	1/20 (5%)
FIRST INCIDENCE	733	734 (T)	734 (T)
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	P=0.622N	P=0.501	P=0.761
POLY 1.5	P=0.618	P=0.499	P=0.758
POLY 6	P=0.611N	P=0.508	P=0.755N
COCH-ARM / FISHERS	P=0.616	P=0.500	P=0.747
MAX-ISO-POLY-3	P=0.519	P=0.280	P=0.499
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTEs	(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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
Thyroid Gland: C-Cell Carcinoma or Adenoma			
TUMOR RATES			
OVERALL (a)	3/50 (6%)	3/50 (6%)	3/49 (6%)
POLY-3 RATE (b)	3/38.83	3/38.48	3/38.84
POLY-3 PERCENT (g)	7.7%	7.8%	7.7%
TERMINAL (d)	1/18 (6%)	3/21 (14%)	2/20 (10%)
FIRST INCIDENCE	611	734 (T)	597
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	P=0.585N	P=0.660	P=0.664N
POLY 1.5	P=0.577	P=0.659	P=0.657
POLY 6	P=0.570N	P=0.664N	P=0.649N
COCH-ARM / FISHERS	P=0.574	P=0.661N	P=0.651
MAX-ISO-POLY-3	P=0.663N	P=0.495	P=0.499N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTEs	(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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
All Organs			
Hemangiosarcoma or Hemangioma			
TUMOR RATES	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/38.57	0/38.48	0/39.26
POLY-3 PERCENT (g)	5.2%	0%	0%
TERMINAL (d)	1/18 (6%)	0/21 (0%)	0/20 (0%)
FIRST INCIDENCE	691	---	---
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	P=0.094N	P=0.237N	P=0.232N
POLY 1.5	P=0.094N	P=0.238N	P=0.235N
POLY 6	P=0.093N	P=0.233N	P=0.226N
COCH-ARM / FISHERS	P=0.095N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.052N	P=0.076N	P=0.075N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
All Organs			
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type			
TUMOR RATES	#	#	#
OVERALL (a)	1/50 (2%)	3/50 (6%)	0/50 (0%)
POLY-3 RATE (b)	1/38.56	3/38.70	0/39.26
POLY-3 PERCENT (g)	2.6%	7.8%	0%
TERMINAL (d)	0/18 (0%)	2/21 (10%)	0/20 (0%)
FIRST INCIDENCE	693	677	---
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	P=0.369N	P=0.305	P=0.496N
POLY 1.5	P=0.375N	P=0.304	P=0.499N
POLY 6	P=0.356N	P=0.312	P=0.491N
COCH-ARM / FISHERS	P=0.378N	P=0.309	P=0.500N
MAX-ISO-POLY-3	P=0.145N	P=0.154	P=0.158N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
All Organs			
Benign Tumors			
TUMOR RATES	#	#	#
OVERALL (a)	22/50 (44%)	29/50 (58%)	22/50 (44%)
POLY-3 RATE (b)	22/40.95	29/42.32	22/41.54
POLY-3 PERCENT (g)	53.7%	68.5%	53%
TERMINAL (d)	12/18 (67%)	17/21 (81%)	12/20 (60%)
FIRST INCIDENCE	586	363	541
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	P=0.512N	P=0.105	P=0.563N
POLY 1.5	P=0.532N	P=0.109	P=0.576N
POLY 6	P=0.460N	P=0.105	P=0.525N
COCH-ARM / FISHERS	P=0.540	P=0.115	P=0.580N
MAX-ISO-POLY-3	P=0.293N	P=0.070	P=0.470N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
All Organs			
Malignant Tumors			
TUMOR RATES	#	#	#
OVERALL (a)	16/50 (32%)	17/50 (34%)	12/50 (24%)
POLY-3 RATE (b)	16/42.45	17/41.90	12/40.77
POLY-3 PERCENT (g)	37.7%	40.6%	29.4%
TERMINAL (d)	4/18 (22%)	7/21 (33%)	4/20 (20%)
FIRST INCIDENCE	488	330	597
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	P=0.254N	P=0.480	P=0.283N
POLY 1.5	P=0.243N	P=0.491	P=0.273N
POLY 6	P=0.255N	P=0.473	P=0.285N
COCH-ARM / FISHERS	P=0.223N	P=0.500	P=0.252N
MAX-ISO-POLY-3	P=0.249N	P=0.390	P=0.214N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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: 11/22/2015
 Time Report Requested: 17:30:03
 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)	250ppmModZnExc	500ppm ZnExc
All Organs			
Malignant and Benign Tumors			
TUMOR RATES	#	#	#
OVERALL (a)	32/50 (64%)	35/50 (70%)	28/50 (56%)
POLY-3 RATE (b)	32/43.83	35/45.06	28/42.51
POLY-3 PERCENT (g)	73%	77.7%	65.9%
TERMINAL (d)	14/18 (78%)	18/21 (86%)	13/20 (65%)
FIRST INCIDENCE	488	330	541
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	P=0.260N	P=0.387	P=0.302N
POLY 1.5	P=0.253N	P=0.378	P=0.292N
POLY 6	P=0.241N	P=0.387	P=0.290N
COCH-ARM / FISHERS	P=0.234N	P=0.335	P=0.270N
MAX-ISO-POLY-3	P=0.207N	P=0.292	P=0.225N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
<hr/>			
Adrenal Medulla			
Pheochromocytoma Benign			
<hr/>			
TUMOR RATES			
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/39.46	2/39.53	0/40.39
POLY-3 PERCENT (g)	0%	5.1%	0%
TERMINAL (d)	0/25 (0%)	1/27 (4%)	0/31 (0%)
FIRST INCIDENCE	---	601	---
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
<hr/>			
STATISTICAL TESTS			
POLY 3	P=0.661N	P=0.237	(e)
POLY 1.5	P=0.668N	P=0.236	(e)
POLY 6	P=0.647N	P=0.241	(e)
COCH-ARM / FISHERS	P=0.669	P=0.247	(e)
MAX-ISO-POLY-3	P=0.265N	P=0.076	(e)
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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: 11/22/2015
Time Report Requested: 17:30:03
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)	250ppmModZnExc	500ppm ZnExc
Adrenal Medulla			
Pheochromocytoma Malignant			
TUMOR RATES			
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/39.63	0/39.10	0/40.39
POLY-3 PERCENT (g)	2.5%	0%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/31 (0%)
FIRST INCIDENCE	681	---	---
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)		
CURR VS HC ALL RTES	(n)		

Experiment Number: 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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
Adrenal Medulla			
Pheochromocytoma: Benign, Complex, Malignant, NOS			
<hr/>			
TUMOR RATES			
OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/39.63	2/39.53	0/40.39
POLY-3 PERCENT (g)	2.5%	5.1%	0%
TERMINAL (d)	0/25 (0%)	1/27 (4%)	0/31 (0%)
FIRST INCIDENCE	681	601	---
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
<hr/>			
STATISTICAL TESTS			
POLY 3	P=0.354N	P=0.499	P=0.496N
POLY 1.5	P=0.360N	P=0.497	P=0.500N
POLY 6	P=0.341N	P=0.504	P=0.489N
COCH-ARM / FISHERS	P=0.360N	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.196N	P=0.279	P=0.158N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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: 11/22/2015

Time Report Requested: 17:30:03

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

Experiment Number: 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: 11/22/2015

Time Report Requested: 17:30:03

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

Experiment Number: 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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
<hr/>			
Islets, Pancreatic Adenoma			
<hr/>			
TUMOR RATES			
OVERALL (a)	0/50 (0%)	1/49 (2%)	0/49 (0%)
POLY-3 RATE (b)	0/39.46	1/39.04	0/40.35
POLY-3 PERCENT (g)	0%	2.6%	0%
TERMINAL (d)	0/25 (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%)		
<hr/>			
STATISTICAL TESTS			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)
HISTCONT ALL RTEs	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)		
CURR VS HC ALL RTEs	(n)		

Experiment Number: 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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
Islets, Pancreatic Carcinoma or Adenoma			
TUMOR RATES			
OVERALL (a)	0/50 (0%)	1/49 (2%)	0/49 (0%)
POLY-3 RATE (b)	0/39.46	1/39.04	0/40.35
POLY-3 PERCENT (g)	0%	2.6%	0%
TERMINAL (d)	0/25 (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%)		
STATISTICAL TESTS			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)		
CURR VS HC ALL RTES	(n)		

Experiment Number: 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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
Mammary Gland Adenoma			
TUMOR RATES	#	#	#
OVERALL (a)	3/50 (6%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	3/39.46	3/39.10	1/40.39
POLY-3 PERCENT (g)	7.6%	7.7%	2.5%
TERMINAL (d)	3/25 (12%)	3/27 (11%)	1/31 (3%)
FIRST INCIDENCE	725 (T)	725 (T)	725 (T)
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	P=0.229N	P=0.659	P=0.296N
POLY 1.5	P=0.237N	P=0.658	P=0.304N
POLY 6	P=0.213N	P=0.663N	P=0.280N
COCH-ARM / FISHERS	P=0.238N	P=0.661N	P=0.309N
MAX-ISO-POLY-3	P=0.232N	P=0.495	P=0.149N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTEs	(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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
Mammary Gland Carcinoma			
TUMOR RATES	#	#	#
OVERALL (a)	4/50 (8%)	4/50 (8%)	4/50 (8%)
POLY-3 RATE (b)	4/40.92	4/40.01	4/40.39
POLY-3 PERCENT (g)	9.8%	10%	9.9%
TERMINAL (d)	1/25 (4%)	2/27 (7%)	4/31 (13%)
FIRST INCIDENCE	540	449	725 (T)
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	P=0.566	P=0.632	P=0.637
POLY 1.5	P=0.564	P=0.634	P=0.635
POLY 6	P=0.571N	P=0.632	P=0.642N
COCH-ARM / FISHERS	P=0.573	P=0.643N	P=0.643N
MAX-ISO-POLY-3	P=0.654	P=0.486	P=0.491
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
Mammary Gland Carcinoma or Adenoma			
TUMOR RATES	#	#	#
OVERALL (a)	7/50 (14%)	7/50 (14%)	5/50 (10%)
POLY-3 RATE (b)	7/40.92	7/40.01	5/40.39
POLY-3 PERCENT (g)	17.1%	17.5%	12.4%
TERMINAL (d)	4/25 (16%)	5/27 (19%)	5/31 (16%)
FIRST INCIDENCE	540	449	725 (T)
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	P=0.333N	P=0.598	P=0.387N
POLY 1.5	P=0.337N	P=0.601	P=0.390N
POLY 6	P=0.318N	P=0.598	P=0.372N
COCH-ARM / FISHERS	P=0.326N	P=0.613N	P=0.380N
MAX-ISO-POLY-3	P=0.378N	P=0.481	P=0.276N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
Mammary Gland Fibroadenoma			
TUMOR RATES	#	#	#
OVERALL (a)	29/50 (58%)	31/50 (62%)	27/50 (54%)
POLY-3 RATE (b)	29/44.56	31/45.61	27/45.17
POLY-3 PERCENT (g)	65.1%	68%	59.8%
TERMINAL (d)	14/25 (56%)	15/27 (56%)	15/31 (48%)
FIRST INCIDENCE	435	179	396
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	P=0.335N	P=0.473	P=0.379N
POLY 1.5	P=0.367N	P=0.450	P=0.409N
POLY 6	P=0.282N	P=0.511	P=0.327N
COCH-ARM / FISHERS	P=0.381N	P=0.419	P=0.420N
MAX-ISO-POLY-3	P=0.347N	P=0.383	P=0.300N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
Mammary Gland			
Fibroma, Fibroadenoma or Adenoma			
<hr/>			
TUMOR RATES	#	#	#
OVERALL (a)	29/50 (58%)	31/50 (62%)	28/50 (56%)
POLY-3 RATE (b)	29/44.56	31/45.61	28/45.17
POLY-3 PERCENT (g)	65.1%	68%	62%
TERMINAL (d)	14/25 (56%)	15/27 (56%)	16/31 (52%)
FIRST INCIDENCE	435	179	396
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
<hr/>			
STATISTICAL TESTS			
POLY 3	P=0.419N	P=0.473	P=0.465N
POLY 1.5	P=0.451N	P=0.450	P=0.495N
POLY 6	P=0.363N	P=0.511	P=0.411N
COCH-ARM / FISHERS	P=0.460N	P=0.419	P=0.500N
MAX-ISO-POLY-3	P=0.447N	P=0.383	P=0.377N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
Mammary Gland			
Fibroma, Fibroadenoma, Carcinoma, or Adenoma			
TUMOR RATES	#	#	#
OVERALL (a)	33/50 (66%)	34/50 (68%)	32/50 (64%)
POLY-3 RATE (b)	33/46.02	34/46.37	32/45.17
POLY-3 PERCENT (g)	71.7%	73.3%	70.8%
TERMINAL (d)	15/25 (60%)	17/27 (63%)	20/31 (65%)
FIRST INCIDENCE	435	179	396
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	P=0.511N	P=0.524	P=0.557N
POLY 1.5	P=0.504N	P=0.521	P=0.548N
POLY 6	P=0.502N	P=0.527	P=0.549N
COCH-ARM / FISHERS	P=0.458N	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.580N	P=0.428	P=0.462N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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: 11/22/2015

Time Report Requested: 17:30:03

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

Experiment Number: 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: 11/22/2015

Time Report Requested: 17:30:03

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

Experiment Number: 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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
Pituitary Gland: Pars Distalis or Unspecified Site Adenoma			
TUMOR RATES			
OVERALL (a)	11/50 (22%)	3/50 (6%)	8/50 (16%)
POLY-3 RATE (b)	11/40.53	3/39.25	8/41.82
POLY-3 PERCENT (g)	27.1%	7.6%	19.1%
TERMINAL (d)	6/25 (24%)	2/27 (7%)	4/31 (13%)
FIRST INCIDENCE	609	687	562
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	P=0.217N	P=0.020N*	P=0.273N
POLY 1.5	P=0.230N	P=0.020N*	P=0.294N
POLY 6	P=0.194N	P=0.020N*	P=0.235N
COCH-ARM / FISHERS	P=0.240N	P=0.020N*	P=0.306N
MAX-ISO-POLY-3	P=0.071N	P=0.010N**	P=0.197N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
Pituitary Gland: Pars Distalis or Unspecified Site Carcinoma or Adenoma			
TUMOR RATES			
OVERALL (a)	12/50 (24%)	3/50 (6%)	8/50 (16%)
POLY-3 RATE (b)	12/40.53	3/39.25	8/41.82
POLY-3 PERCENT (g)	29.6%	7.6%	19.1%
TERMINAL (d)	7/25 (28%)	2/27 (7%)	4/31 (13%)
FIRST INCIDENCE	609	687	562
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	P=0.144N	P=0.011N*	P=0.195N
POLY 1.5	P=0.155N	P=0.011N*	P=0.215N
POLY 6	P=0.125N	P=0.010N**	P=0.163N
COCH-ARM / FISHERS	P=0.166N	P=0.011N*	P=0.227N
MAX-ISO-POLY-3	P=0.039N*	P=0.005N**	P=0.135N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc

Skin
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma

TUMOR RATES	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/39.46	0/39.10	0/40.39
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		

STATISTICAL TESTS

POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)		
CURR VS HC ALL RTES	(n)		

Experiment Number: 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: 11/22/2015

Time Report Requested: 17:30:03

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

Experiment Number: 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

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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 104 WEEKS**

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

Experiment Number: 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

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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 104 WEEKS**

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

Experiment Number: 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: 11/22/2015

Time Report Requested: 17:30:03

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

Experiment Number: 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: 11/22/2015

Time Report Requested: 17:30:03

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

Experiment Number: 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: 11/22/2015
 Time Report Requested: 17:30:03
 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)	250ppmModZnExc	500ppm ZnExc
Skin			
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma			
TUMOR RATES	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/39.46	0/39.10	0/40.39
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)		
CURR VS HC ALL RTES	(n)		

Experiment Number: 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

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Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
Thyroid Gland: C-Cell Adenoma			
TUMOR RATES			
OVERALL (a)	1/50 (2%)	1/50 (2%)	3/48 (6%)
POLY-3 RATE (b)	1/39.46	1/39.25	3/40.27
POLY-3 PERCENT (g)	2.5%	2.6%	7.5%
TERMINAL (d)	1/25 (4%)	0/27 (0%)	1/31 (3%)
FIRST INCIDENCE	725 (T)	687	610
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	P=0.205	P=0.760	P=0.312
POLY 1.5	P=0.197	P=0.759	P=0.301
POLY 6	P=0.220	P=0.759N	P=0.333
COCH-ARM / FISHERS	P=0.190	P=0.753N	P=0.293
MAX-ISO-POLY-3	P=0.196	P=0.498	P=0.163
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc

Thyroid Gland: C-Cell
Carcinoma

TUMOR RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)	0/48 (0%)
POLY-3 RATE (b)	1/39.56	2/39.62	0/39.82
POLY-3 PERCENT (g)	2.5%	5.1%	0%
TERMINAL (d)	0/25 (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%)		

STATISTICAL TESTS

POLY 3	P=0.355N	P=0.501	P=0.499N
POLY 1.5	P=0.364N	P=0.498	P=0.504N
POLY 6	P=0.339N	P=0.507	P=0.489N
COCH-ARM / FISHERS	P=0.371N	P=0.500	P=0.510N
MAX-ISO-POLY-3	P=0.200N	P=0.280	P=0.161N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
Thyroid Gland: C-Cell Carcinoma or Adenoma			
TUMOR RATES			
OVERALL (a)	2/50 (4%)	3/50 (6%)	3/48 (6%)
POLY-3 RATE (b)	2/39.56	3/39.77	3/40.27
POLY-3 PERCENT (g)	5.1%	7.5%	7.5%
TERMINAL (d)	1/25 (4%)	1/27 (4%)	1/31 (3%)
FIRST INCIDENCE	700	568	610
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	P=0.424	P=0.502	P=0.508
POLY 1.5	P=0.408	P=0.498	P=0.494
POLY 6	P=0.454	P=0.512	P=0.533
COCH-ARM / FISHERS	P=0.393	P=0.500	P=0.480
MAX-ISO-POLY-3	P=0.461	P=0.325	P=0.333
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
<hr/>			
Uterus			
Polyp Stromal			
<hr/>			
TUMOR RATES	#	#	#
OVERALL (a)	3/50 (6%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	3/39.82	0/39.10	2/40.72
POLY-3 PERCENT (g)	7.5%	0%	4.9%
TERMINAL (d)	1/25 (4%)	0/27 (0%)	1/31 (3%)
FIRST INCIDENCE	677	---	635
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
<hr/>			
STATISTICAL TESTS			
POLY 3	P=0.386N	P=0.121N	P=0.490N
POLY 1.5	P=0.389N	P=0.121N	P=0.498N
POLY 6	P=0.380N	P=0.120N	P=0.471N
COCH-ARM / FISHERS	P=0.390N	P=0.121N	P=0.500N
MAX-ISO-POLY-3	P=0.181N	P=0.040N*	P=0.316N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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: 11/22/2015

Time Report Requested: 17:30:03

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)	250ppmModZnExc	500ppm ZnExc
<hr/>			
All Organs			
Hemangiosarcoma or Hemangioma			
<hr/>			
TUMOR RATES	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/39.46	1/39.62	1/40.39
POLY-3 PERCENT (g)	0%	2.5%	2.5%
TERMINAL (d)	0/25 (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%)		
<hr/>			
STATISTICAL TESTS			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)		
CURR VS HC ALL RTES	(n)		

Experiment Number: 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: 11/22/2015

Time Report Requested: 17:30:03

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

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Zinc Carbonate, Basic

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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 104 WEEKS

DOSE	Females		
	Control (38ppm)	250ppmModZnExc	500ppm ZnExc
All Organs			
Benign Tumors			
TUMOR RATES	#	#	#
OVERALL (a)	35/50 (70%)	34/50 (68%)	32/50 (64%)
POLY-3 RATE (b)	35/45.41	34/46.13	32/46.00
POLY-3 PERCENT (g)	77.1%	73.7%	69.6%
TERMINAL (d)	17/25 (68%)	17/27 (63%)	18/31 (58%)
FIRST INCIDENCE	435	179	396
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	P=0.239N	P=0.446N	P=0.278N
POLY 1.5	P=0.273N	P=0.465N	P=0.313N
POLY 6	P=0.193N	P=0.425N	P=0.229N
COCH-ARM / FISHERS	P=0.297N	P=0.500N	P=0.335N
MAX-ISO-POLY-3	P=0.285N	P=0.350N	P=0.205N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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

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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 104 WEEKS

DOSE	Females		
	Control (38ppm)	250ppmModZnExc	500ppm ZnExc
All Organs			
Malignant Tumors			
TUMOR RATES	#	#	#
OVERALL (a)	11/50 (22%)	11/50 (22%)	11/50 (22%)
POLY-3 RATE (b)	11/42.23	11/42.58	11/41.91
POLY-3 PERCENT (g)	26.1%	25.8%	26.2%
TERMINAL (d)	4/25 (16%)	3/27 (11%)	8/31 (26%)
FIRST INCIDENCE	540	449	362
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	P=0.541	P=0.589N	P=0.590
POLY 1.5	P=0.538	P=0.597N	P=0.586
POLY 6	P=0.544N	P=0.573N	P=0.593N
COCH-ARM / FISHERS	P=0.548	P=0.595N	P=0.595N
MAX-ISO-POLY-3	P=0.651	P=0.490N	P=0.491
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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

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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 104 WEEKS

DOSE	Females		
	Control (38ppm)	250ppmModZnExc	500ppm ZnExc
All Organs			
Malignant and Benign Tumors			
TUMOR RATES	#	#	#
OVERALL (a)	40/50 (80%)	40/50 (80%)	39/50 (78%)
POLY-3 RATE (b)	40/47.44	40/48.35	39/47.25
POLY-3 PERCENT (g)	84.3%	82.7%	82.5%
TERMINAL (d)	18/25 (72%)	19/27 (70%)	23/31 (74%)
FIRST INCIDENCE	435	179	362
HC TUMORS SAME ROUTE	0/0 (0%)		
HC TUMORS ALL ROUTES	0/0 (0%)		
STATISTICAL TESTS			
POLY 3	P=0.462N	P=0.526N	P=0.517N
POLY 1.5	P=0.467N	P=0.546N	P=0.521N
POLY 6	P=0.451N	P=0.518N	P=0.506N
COCH-ARM / FISHERS	P=0.451N	P=0.598N	P=0.500N
MAX-ISO-POLY-3	P=0.555N	P=0.415N	P=0.405N
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(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

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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 ***