

Experiment Number: 05083-01
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
Test Compound: Wollastonite calcium silicates
CAS Number: 13983-17-0

Date Report Requested: 10/23/2014
Time Report Requested: 12:35:06
First Dose M/F: NA / NA
Lab: NORTHROP

C Number:	C55470B
Lock Date:	Not Entered.
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Male
PWG Approval Date	NONE

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HISTORICAL CONTROL STUDIES

From August 1992 report

SAME ROUTE

05070-01 -- Vinyl toluene (INHALATION AIR)
05072-01 -- Tetranitromethane (INHALATION AIR)
05078-01 -- Chloroethane (INHALATION AIR)
05095-01 -- Epinephrine hydrochloride (INHALATION AIR)
05096-01 -- o-Chlorobenzalmalononitrile (CS) (INHALATION AIR)
05097-01 -- 2-Chloroacetophenone (CN) (INHALATION AIR)
05701-02 -- Toluene (INHALATION AIR)

ALL ROUTES

05004-03 -- Furan (GAVAGE CORN OIL)
05007-06 -- Polysorbate 80 (glycol) (ORAL FEED)
05019-03 -- C.I. Pigment red 3 (ORAL FEED)
05021-03 -- C.I. Pigment red 23 (ORAL FEED)
05024-01 -- N-Methylolacrylamide (GAVAGE WATER)
05026-01 -- Sodium azide (GAVAGE WATER)
05028-01 -- Hexachloroethane (GAVAGE CORN OIL)
05029-01 -- DL-amphetamine sulfate (ORAL FEED)
05030-01 -- Probenecid (GAVAGE)
05033-01 -- Quercetin (ORAL FEED)
05035-03 -- Acetaminophen (4-hydroxyacetanilide) (ORAL FEED)
05036-01 -- Ochratoxin A (GAVAGE CORN OIL)
05038-01 -- Dimethoxane (GAVAGE CORN OIL)
05040-01 -- Hydroquinone (GAVAGE WATER)
05041-01 -- Succinic anhydride (GAVAGE CORN OIL)
05042-01 -- tris(2-Chloroethyl) phosphate (GAVAGE CORN OIL)
05043-01 -- 2,4-Diaminophenol dihydrochloride (GAVAGE CORN OIL)
05044-01 -- 4-Vinyl-1-cyclohexene diepoxide (SKIN ACETONE)
05047-01 -- Titanocene dichloride (GAVAGE CORN OIL)
05057-01 -- HC yellow 4 (ORAL FEED)
05061-01 -- 1-Amino-2,4-dibromoanthraquinone (ORAL FEED)
05075-01 -- 5,5-Diphenylhydantoin (phenytoin) (ORAL FEED)

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From August 1992 report

- 05076-01 -- Ethylene thiourea (ETU) (ORAL FEED)
- 05095-01 -- Epinephrine hydrochloride (INHALATION AIR)
- 05096-01 -- o-Chlorobenzalmalononitrile (CS) (INHALATION AIR)
- 05097-01 -- 2-Chloroacetophenone (CN) (INHALATION AIR)
- 05163-01 -- C.I. Acid red 114 (ORAL WATER)
- 05701-02 -- Toluene (INHALATION AIR)
- 05704-02 -- Resorcinol (GAVAGE WATER)
- 05706-02 -- 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt (ORAL FEED)

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

Adrenal Cortex
Adrenal Medulla
Islets, Pancreatic
Liver
Lung
Pancreas
Pituitary Gland
Testes
Thyroid Gland

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SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF WOLLASTONITE CALCIUM SILICATES

MALE RAT

Organ

Adrenal Medulla

Islets, Pancreatic

Lung

Thyroid Gland: Follicular Cell

All Organs

Morphology

Pheochromocytoma Benign

Pheochromocytoma Nos

Carcinoma or Adenoma

Alveolar/Bronchiolar Adenoma

Alveolar/Bronchiolar Carcinoma

Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma

Carcinoma or Adenoma

Mesothelioma: Benign, Malignant, NOS

Mesothelioma: Malignant

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Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Adrenal Cortex		
Adenoma		
TUMOR RATES		
OVERALL(a)	2/67 (3%)	4/191 (2%)
POLY-3 RATE (b)	2/42.18	4/127.89
POLY-3 PERCENT (g)	4.7%	3.1%
TERMINAL (d)	0/7 (0%)	0/35 (0%)
FIRST INCIDENCE	653	705
HC TUMORS SAME ROUTE	6/349 (2%)	
HC TUMORS ALL ROUTES	9/1585 (1%)	
STATISTICAL TESTS		
POLY 3	P=0.495N	P=0.495N
POLY 1.5	P=0.509N	P=0.509N
POLY 6	P=0.473N	P=0.473N
COCH-ARM / FISHERS	P=0.522N	P=0.490N
MAX-ISO-POLY-3	P=0.347N	P=0.347N
HISTCONT SAME RTE	P=0.276	P=0.474
HISTCONT ALL RTEs	P=0.005**	P=0.017*
CURR VS HC SAME RTE	P=0.429	
CURR VS HC ALL RTEs	P=0.014*	

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First Dose M/F: NA / NA

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Adrenal Medulla		
Pheochromocytoma Benign		
TUMOR RATES		
OVERALL(a)	19/67 (28%)	21/182 (12%)
POLY-3 RATE (b)	19/45.29	21/125.56
POLY-3 PERCENT (g)	42%	16.7%
TERMINAL (d)	3/7 (43%)	8/33 (24%)
FIRST INCIDENCE	565	596
HC TUMORS SAME ROUTE	77/349 (22%)	
HC TUMORS ALL ROUTES	464/1585 (29%)	
STATISTICAL TESTS		
POLY 3	P=0.000N**	P=0.000N**
POLY 1.5	P=0.001N**	P=0.001N**
POLY 6	P=0.000N**	P=0.000N**
COCH-ARM / FISHERS	P=0.001N**	P=0.002N**
MAX-ISO-POLY-3	P=0.000N**	P=0.002N**
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.186	
CURR VS HC ALL RTEs	P=0.664	

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First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Adrenal Medulla		
Pheochromocytoma Malignant		
TUMOR RATES		
OVERALL(a)	0/67 (0%)	4/182 (2%)
POLY-3 RATE (b)	0/41.60	4/122.56
POLY-3 PERCENT (g)	0%	3.3%
TERMINAL (d)	0/7 (0%)	2/33 (6%)
FIRST INCIDENCE	---	729
HC TUMORS SAME ROUTE	8/349 (2%)	
HC TUMORS ALL ROUTES	54/1585 (3%)	
STATISTICAL TESTS		
POLY 3	P=0.279	P=0.279
POLY 1.5	P=0.267	P=0.267
POLY 6	P=0.298	P=0.298
COCH-ARM / FISHERS	P=0.256	P=0.283
MAX-ISO-POLY-3	P=0.175	P=0.175
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.293	
CURR VS HC ALL RTEs	P=0.190	

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First Dose M/F: NA / NA

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Adrenal Medulla		
Pheochromocytoma Nos		
TUMOR RATES		
OVERALL(a)	0/67 (0%)	37/182 (20%)
POLY-3 RATE (b)	0/41.60	37/130.29
POLY-3 PERCENT (g)	0%	28.4%
TERMINAL (d)	0/7 (0%)	6/33 (18%)
FIRST INCIDENCE	---	374
HC TUMORS SAME ROUTE	7/349 (2%)	
HC TUMORS ALL ROUTES	7/1585 (0%)	
STATISTICAL TESTS		
POLY 3	P=0.000**	P=0.000**
POLY 1.5	P=0.000**	P=0.000**
POLY 6	P=0.000**	P=0.000**
COCH-ARM / FISHERS	P=0.000**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	P<0.001**
HISTCONT SAME RTE	P=0.000**	P=0.003**
HISTCONT ALL RTEs	P=0.000**	P=0.000**
CURR VS HC SAME RTE	P=0.452	
CURR VS HC ALL RTEs	P=0.758	

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First Dose M/F: NA / NA

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Adrenal Medulla		
Pheochromocytoma: Benign, Complex, Malignant, NOS		
TUMOR RATES		
OVERALL(a)	19/67 (28%)	61/182 (34%)
POLY-3 RATE (b)	19/45.29	61/134.06
POLY-3 PERCENT (g)	42%	45.5%
TERMINAL (d)	3/7 (43%)	15/33 (45%)
FIRST INCIDENCE	565	374
HC TUMORS SAME ROUTE	91/349 (26%)	
HC TUMORS ALL ROUTES	509/1585 (32%)	
STATISTICAL TESTS		
POLY 3	P=0.401	P=0.401
POLY 1.5	P=0.330	P=0.330
POLY 6	P=0.518	P=0.518
COCH-ARM / FISHERS	P=0.268	P=0.269
MAX-ISO-POLY-3	P=0.364	P=0.364
HISTCONT SAME RTE	P=0.048*	P=0.085
HISTCONT ALL RTEs	P=0.240	P=0.281
CURR VS HC SAME RTE	P=0.439	
CURR VS HC ALL RTEs	P=0.994	

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Bone		
Osteosarcoma or Osteoma		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	0/68 (0%)	2/208 (1%)
POLY-3 RATE (b)	0/42.12	2/133.71
POLY-3 PERCENT (g)	0%	1.5%
TERMINAL (d)	0/7 (0%)	1/36 (3%)
FIRST INCIDENCE	---	649
HC TUMORS SAME ROUTE	0/349 (0%)	
HC TUMORS ALL ROUTES	5/1585 (0%)	
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.514	P=0.514
POLY 1.5	P=0.505	P=0.505
POLY 6	P=0.529	P=0.529
COCH-ARM / FISHERS	P=0.505	P=0.567
MAX-ISO-POLY-3	P=0.262	P=0.262
HISTCONT SAME RTE	P<0.001**	P=0.039*
HISTCONT ALL RTEs	P=0.033*	P=0.110
CURR VS HC SAME RTE	P=1.000	
CURR VS HC ALL RTEs	P=0.683	

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Islets, Pancreatic		
Adenoma		
TUMOR RATES		
OVERALL(a)	3/7 (43%)	19/27 (70%)
POLY-3 RATE (b)	3/6.19	19/24.11
POLY-3 PERCENT (g)	48.5%	78.8%
TERMINAL (d)	1/1 (100%)	5/6 (83%)
FIRST INCIDENCE	653	617
HC TUMORS SAME ROUTE	26/340 (8%)	
HC TUMORS ALL ROUTES	69/1542 (4%)	
STATISTICAL TESTS		
POLY 3	P=0.135	P=0.135
POLY 1.5	P=0.143	P=0.143
POLY 6	P=0.152	P=0.152
COCH-ARM / FISHERS	P=0.180	P=0.180
MAX-ISO-POLY-3	P=0.095	P=0.095
HISTCONT SAME RTE	P=0.000**	P=0.000**
HISTCONT ALL RTEs	P=0.000**	P=0.000**
CURR VS HC SAME RTE	P<0.001**	
CURR VS HC ALL RTEs	P=0.000**	

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Islets, Pancreatic Carcinoma		
TUMOR RATES		
OVERALL(a)	2/7 (29%)	6/27 (22%)
POLY-3 RATE (b)	2/6.07	6/21.36
POLY-3 PERCENT (g)	32.9%	28.1%
TERMINAL (d)	0/1 (0%)	1/6 (17%)
FIRST INCIDENCE	698	635
HC TUMORS SAME ROUTE	8/340 (2%)	
HC TUMORS ALL ROUTES	15/1542 (1%)	
STATISTICAL TESTS		
POLY 3	P=0.610N	P=0.610N
POLY 1.5	P=0.590N	P=0.590N
POLY 6	P=0.627N	P=0.627N
COCH-ARM / FISHERS	P=0.558N	P=0.535N
MAX-ISO-POLY-3	P=0.423N	P=0.423N
HISTCONT SAME RTE	P=0.002**	P=0.009**
HISTCONT ALL RTEs	P=0.000**	P=0.000**
CURR VS HC SAME RTE	P=0.000**	
CURR VS HC ALL RTEs	P=0.000**	

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Islets, Pancreatic Carcinoma or Adenoma		
TUMOR RATES		
OVERALL(a)	5/7 (71%)	24/27 (89%)
POLY-3 RATE (b)	5/6.67	24/24.95
POLY-3 PERCENT (g)	75%	96.2%
TERMINAL (d)	1/1 (100%)	6/6 (100%)
FIRST INCIDENCE	653	617
HC TUMORS SAME ROUTE	34/340 (10%)	
HC TUMORS ALL ROUTES	84/1542 (5%)	
STATISTICAL TESTS		
POLY 3	P=0.113	P=0.113
POLY 1.5	P=0.163	P=0.163
POLY 6	P=0.092	P=0.092
COCH-ARM / FISHERS	P=0.287	P=0.268
MAX-ISO-POLY-3	P=0.040*	P=0.040*
HISTCONT SAME RTE	P=0.000**	P=0.000**
HISTCONT ALL RTEs	P=0.000**	P=0.000**
CURR VS HC SAME RTE	P=0.000**	
CURR VS HC ALL RTEs	P=0.000**	

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Liver		
Hepatocellular Adenoma		
TUMOR RATES		
OVERALL(a)	3/68 (4%)	3/191 (2%)
POLY-3 RATE (b)	3/42.47	3/128.47
POLY-3 PERCENT (g)	7.1%	2.3%
TERMINAL (d)	1/7 (14%)	1/35 (3%)
FIRST INCIDENCE	737	565
HC TUMORS SAME ROUTE	10/348 (3%)	
HC TUMORS ALL ROUTES	41/1584 (3%)	
STATISTICAL TESTS		
POLY 3	P=0.169N	P=0.169N
POLY 1.5	P=0.181N	P=0.181N
POLY 6	P=0.152N	P=0.152N
COCH-ARM / FISHERS	P=0.193N	P=0.188N
MAX-ISO-POLY-3	P=0.125N	P=0.125N
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.441	
CURR VS HC ALL RTEs	P=0.287	

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First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Lung		
Alveolar/Bronchiolar Adenoma		
TUMOR RATES		
OVERALL(a)	0/56 (0%)	11/158 (7%)
POLY-3 RATE (b)	0/36.54	11/113.96
POLY-3 PERCENT (g)	0%	9.7%
TERMINAL (d)	0/7 (0%)	5/34 (15%)
FIRST INCIDENCE	---	387
HC TUMORS SAME ROUTE	10/348 (3%)	
HC TUMORS ALL ROUTES	42/1561 (3%)	
STATISTICAL TESTS		
POLY 3	P=0.059	P=0.059
POLY 1.5	P=0.052	P=0.052
POLY 6	P=0.072	P=0.072
COCH-ARM / FISHERS	P=0.047*	P=0.032*
MAX-ISO-POLY-3	P=0.059	P=0.061
HISTCONT SAME RTE	P=0.033*	P=0.066
HISTCONT ALL RTEs	P=0.000**	P=0.003**
CURR VS HC SAME RTE	P=0.248	
CURR VS HC ALL RTEs	P=0.284	

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Lung		
Alveolar/Bronchiolar Carcinoma		
TUMOR RATES		
OVERALL(a)	0/56 (0%)	12/158 (8%)
POLY-3 RATE (b)	0/36.54	12/115.58
POLY-3 PERCENT (g)	0%	10.4%
TERMINAL (d)	0/7 (0%)	1/34 (3%)
FIRST INCIDENCE	---	565
HC TUMORS SAME ROUTE	2/348 (1%)	
HC TUMORS ALL ROUTES	11/1561 (1%)	
STATISTICAL TESTS		
POLY 3	P=0.049*	P=0.049*
POLY 1.5	P=0.042*	P=0.042*
POLY 6	P=0.064	P=0.064
COCH-ARM / FISHERS	P=0.037*	P=0.023*
MAX-ISO-POLY-3	P=0.050*	P=0.055
HISTCONT SAME RTE	P=0.000**	P=0.003**
HISTCONT ALL RTEs	P=0.000**	P=0.000**
CURR VS HC SAME RTE	P=0.549	
CURR VS HC ALL RTEs	P=0.691	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Lung		
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma		
TUMOR RATES		
OVERALL(a)	0/56 (0%)	22/158 (14%)
POLY-3 RATE (b)	0/36.54	22/117.36
POLY-3 PERCENT (g)	0%	18.7%
TERMINAL (d)	0/7 (0%)	6/34 (18%)
FIRST INCIDENCE	---	387
HC TUMORS SAME ROUTE	12/348 (3%)	
HC TUMORS ALL ROUTES	53/1561 (3%)	
STATISTICAL TESTS		
POLY 3	P=0.005**	P=0.005**
POLY 1.5	P=0.004**	P=0.004**
POLY 6	P=0.009**	P=0.009**
COCH-ARM / FISHERS	P=0.004**	P<0.001**
MAX-ISO-POLY-3	P=0.006**	P=0.013*
HISTCONT SAME RTE	P=0.002**	P=0.007**
HISTCONT ALL RTEs	P=0.000**	P=0.000**
CURR VS HC SAME RTE	P=0.205	
CURR VS HC ALL RTEs	P=0.207	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Mammary Gland		
Fibroma, Fibroadenoma or Adenoma		
TUMOR RATES	#	#
OVERALL(a)	0/68 (0%)	2/208 (1%)
POLY-3 RATE (b)	0/42.12	2/133.45
POLY-3 PERCENT (g)	0%	1.5%
TERMINAL (d)	0/7 (0%)	1/36 (3%)
FIRST INCIDENCE	---	737
HC TUMORS SAME ROUTE	7/349 (2%)	
HC TUMORS ALL ROUTES	78/1585 (5%)	
STATISTICAL TESTS		
POLY 3	P=0.513	P=0.513
POLY 1.5	P=0.505	P=0.505
POLY 6	P=0.528	P=0.528
COCH-ARM / FISHERS	P=0.505	P=0.567
MAX-ISO-POLY-3	P=0.261	P=0.261
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.249	
CURR VS HC ALL RTEs	P=0.091	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Mammary Gland		
Fibroma, Fibroadenoma, Carcinoma, or Adenoma		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	0/68 (0%)	2/208 (1%)
POLY-3 RATE (b)	0/42.12	2/133.45
POLY-3 PERCENT (g)	0%	1.5%
TERMINAL (d)	0/7 (0%)	1/36 (3%)
FIRST INCIDENCE	---	737
HC TUMORS SAME ROUTE	7/349 (2%)	
HC TUMORS ALL ROUTES	85/1585 (5%)	
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.513	P=0.513
POLY 1.5	P=0.505	P=0.505
POLY 6	P=0.528	P=0.528
COCH-ARM / FISHERS	P=0.505	P=0.567
MAX-ISO-POLY-3	P=0.261	P=0.261
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.249	
CURR VS HC ALL RTEs	P=0.075	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Pancreas		
Adenoma		
TUMOR RATES		
OVERALL(a)	1/58 (2%)	2/170 (1%)
POLY-3 RATE (b)	1/35.43	2/113.87
POLY-3 PERCENT (g)	2.8%	1.8%
TERMINAL (d)	0/6 (0%)	1/34 (3%)
FIRST INCIDENCE	738	566
HC TUMORS SAME ROUTE	1/342 (0%)	
HC TUMORS ALL ROUTES	21/1545 (1%)	
STATISTICAL TESTS		
POLY 3	P=0.611N	P=0.611N
POLY 1.5	P=0.624N	P=0.624N
POLY 6	P=0.593N	P=0.593N
COCH-ARM / FISHERS	P=0.637N	P=0.587N
MAX-ISO-POLY-3	P=0.379N	P=0.379N
HISTCONT SAME RTE	P=0.033*	P=0.178
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.137	
CURR VS HC ALL RTEs	P=0.728	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Parathyroid Gland		
Adenoma		
TUMOR RATES	#	#
OVERALL(a)	3/54 (6%)	3/154 (2%)
POLY-3 RATE (b)	3/35.00	3/110.01
POLY-3 PERCENT (g)	8.6%	2.7%
TERMINAL (d)	1/6 (17%)	1/35 (3%)
FIRST INCIDENCE	743	668
HC TUMORS SAME ROUTE	4/349 (1%)	
HC TUMORS ALL ROUTES	13/1585 (1%)	
STATISTICAL TESTS		
POLY 3	P=0.158N	P=0.158N
POLY 1.5	P=0.172N	P=0.172N
POLY 6	P=0.136N	P=0.136N
COCH-ARM / FISHERS	P=0.187N	P=0.182N
MAX-ISO-POLY-3	P=0.118N	P=0.118N
HISTCONT SAME RTE	P=0.195	P=0.368
HISTCONT ALL RTEs	P=0.092	P=0.154
CURR VS HC SAME RTE	P=0.019*	
CURR VS HC ALL RTEs	P=0.000**	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Pituitary Gland: Pars Distalis or Unspecified Site		
Adenoma		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	29/50 (58%)	98/158 (62%)
POLY-3 RATE (b)	29/41.55	98/139.30
POLY-3 PERCENT (g)	69.8%	70.4%
TERMINAL (d)	4/5 (80%)	16/32 (50%)
FIRST INCIDENCE	373	374
HC TUMORS SAME ROUTE	203/340 (60%)	
HC TUMORS ALL ROUTES	581/1535 (38%)	
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.553	P=0.553
POLY 1.5	P=0.462	P=0.462
POLY 6	P=0.487N	P=0.487N
COCH-ARM / FISHERS	P=0.366	P=0.364
MAX-ISO-POLY-3	P=0.476	P=0.476
HISTCONT SAME RTE	P=0.314	P=0.357
HISTCONT ALL RTEs	P=0.000**	P=0.000**
CURR VS HC SAME RTE	P=0.981	
CURR VS HC ALL RTEs	P=0.002**	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
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)	2/68 (3%)	13/208 (6%)
POLY-3 RATE (b)	2/42.39	13/137.83
POLY-3 PERCENT (g)	4.7%	9.4%
TERMINAL (d)	1/7 (14%)	0/36 (0%)
FIRST INCIDENCE	710	504
HC TUMORS SAME ROUTE	20/349 (6%)	
HC TUMORS ALL ROUTES	105/1585 (7%)	
STATISTICAL TESTS		
POLY 3	P=0.259	P=0.259
POLY 1.5	P=0.235	P=0.235
POLY 6	P=0.303	P=0.303
COCH-ARM / FISHERS	P=0.231	P=0.239
MAX-ISO-POLY-3	P=0.220	P=0.220
HISTCONT SAME RTE	P=0.268	P=0.363
HISTCONT ALL RTEs	P=0.441	P=1.000
CURR VS HC SAME RTE	P=0.429	
CURR VS HC ALL RTEs	P=0.328	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Skin		
Fibroma		
TUMOR RATES	#	#
OVERALL(a)	0/68 (0%)	2/208 (1%)
POLY-3 RATE (b)	0/42.12	2/133.89
POLY-3 PERCENT (g)	0%	1.5%
TERMINAL (d)	0/7 (0%)	0/36 (0%)
FIRST INCIDENCE	---	649
HC TUMORS SAME ROUTE	18/349 (5%)	
HC TUMORS ALL ROUTES	72/1585 (5%)	
STATISTICAL TESTS		
POLY 3	P=0.514	P=0.514
POLY 1.5	P=0.505	P=0.505
POLY 6	P=0.529	P=0.529
COCH-ARM / FISHERS	P=0.505	P=0.567
MAX-ISO-POLY-3	P=0.262	P=0.262
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.067	
CURR VS HC ALL RTEs	P=0.110	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Skin		
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma		
TUMOR RATES	#	#
OVERALL(a)	1/68 (1%)	8/208 (4%)
POLY-3 RATE (b)	1/42.34	8/135.55
POLY-3 PERCENT (g)	2.4%	5.9%
TERMINAL (d)	0/7 (0%)	1/36 (3%)
FIRST INCIDENCE	726	565
HC TUMORS SAME ROUTE	22/349 (6%)	
HC TUMORS ALL ROUTES	102/1585 (6%)	
STATISTICAL TESTS		
POLY 3	P=0.305	P=0.305
POLY 1.5	P=0.288	P=0.288
POLY 6	P=0.335	P=0.335
COCH-ARM / FISHERS	P=0.286	P=0.305
MAX-ISO-POLY-3	P=0.232	P=0.232
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.158	
CURR VS HC ALL RTEs	P=0.156	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Skin		
Fibrosarcoma		
TUMOR RATES	#	#
OVERALL(a)	0/68 (0%)	5/208 (2%)
POLY-3 RATE (b)	0/42.12	5/134.73
POLY-3 PERCENT (g)	0%	3.7%
TERMINAL (d)	0/7 (0%)	1/36 (3%)
FIRST INCIDENCE	---	565
HC TUMORS SAME ROUTE	3/349 (1%)	
HC TUMORS ALL ROUTES	21/1585 (1%)	
STATISTICAL TESTS		
POLY 3	P=0.233	P=0.233
POLY 1.5	P=0.222	P=0.222
POLY 6	P=0.253	P=0.253
COCH-ARM / FISHERS	P=0.222	P=0.240
MAX-ISO-POLY-3	P=0.156	P=0.156
HISTCONT SAME RTE	P=0.094	P=0.171
HISTCONT ALL RTES	P=0.044*	P=0.081
CURR VS HC SAME RTE	P=0.602	
CURR VS HC ALL RTES	P=0.509	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Skin		
Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma		
TUMOR RATES	#	#
OVERALL(a)	1/68 (1%)	6/208 (3%)
POLY-3 RATE (b)	1/42.34	6/134.94
POLY-3 PERCENT (g)	2.4%	4.4%
TERMINAL (d)	0/7 (0%)	1/36 (3%)
FIRST INCIDENCE	726	565
HC TUMORS SAME ROUTE	4/349 (1%)	
HC TUMORS ALL ROUTES	31/1585 (2%)	
STATISTICAL TESTS		
POLY 3	P=0.439	P=0.439
POLY 1.5	P=0.422	P=0.422
POLY 6	P=0.468	P=0.468
COCH-ARM / FISHERS	P=0.421	P=0.452
MAX-ISO-POLY-3	P=0.313	P=0.313
HISTCONT SAME RTE	P=0.123	P=0.193
HISTCONT ALL RTEs	P=0.106	P=0.153
CURR VS HC SAME RTE	P=0.802	
CURR VS HC ALL RTEs	P=0.876	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Skin		
Keratoacanthoma		
TUMOR RATES	#	#
OVERALL(a)	1/68 (1%)	8/208 (4%)
POLY-3 RATE (b)	1/42.39	8/135.08
POLY-3 PERCENT (g)	2.4%	5.9%
TERMINAL (d)	0/7 (0%)	0/36 (0%)
FIRST INCIDENCE	710	659
HC TUMORS SAME ROUTE	14/349 (4%)	
HC TUMORS ALL ROUTES	43/1585 (3%)	
STATISTICAL TESTS		
POLY 3	P=0.302	P=0.302
POLY 1.5	P=0.287	P=0.287
POLY 6	P=0.332	P=0.332
COCH-ARM / FISHERS	P=0.286	P=0.305
MAX-ISO-POLY-3	P=0.230	P=0.230
HISTCONT SAME RTE	P=0.461	P=1.000
HISTCONT ALL RTEs	P=0.112	P=0.159
CURR VS HC SAME RTE	P=0.380	
CURR VS HC ALL RTEs	P=0.634	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Skin		
Squamous Cell Carcinoma		
TUMOR RATES	#	#
OVERALL(a)	0/68 (0%)	2/208 (1%)
POLY-3 RATE (b)	0/42.12	2/134.13
POLY-3 PERCENT (g)	0%	1.5%
TERMINAL (d)	0/7 (0%)	0/36 (0%)
FIRST INCIDENCE	---	612
HC TUMORS SAME ROUTE	0/349 (0%)	
HC TUMORS ALL ROUTES	9/1585 (1%)	
STATISTICAL TESTS		
POLY 3	P=0.514	P=0.514
POLY 1.5	P=0.506	P=0.506
POLY 6	P=0.530	P=0.530
COCH-ARM / FISHERS	P=0.505	P=0.567
MAX-ISO-POLY-3	P=0.263	P=0.263
HISTCONT SAME RTE	P<0.001**	P=0.039*
HISTCONT ALL RTEs	P=0.190	P=0.348
CURR VS HC SAME RTE	P=1.000	
CURR VS HC ALL RTEs	P=0.749	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Skin		
Squamous Cell Papilloma or Papilloma		
TUMOR RATES	#	#
OVERALL(a)	0/68 (0%)	2/208 (1%)
POLY-3 RATE (b)	0/42.12	2/134.60
POLY-3 PERCENT (g)	0%	1.5%
TERMINAL (d)	0/7 (0%)	0/36 (0%)
FIRST INCIDENCE	---	504
HC TUMORS SAME ROUTE	1/349 (0%)	
HC TUMORS ALL ROUTES	23/1585 (1%)	
STATISTICAL TESTS		
POLY 3	P=0.515	P=0.515
POLY 1.5	P=0.506	P=0.506
POLY 6	P=0.531	P=0.531
COCH-ARM / FISHERS	P=0.505	P=0.567
MAX-ISO-POLY-3	P=0.263	P=0.263
HISTCONT SAME RTE	P=0.055	P=0.242
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.625	
CURR VS HC ALL RTEs	P=0.482	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Skin		
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	1/68 (1%)	12/208 (6%)
POLY-3 RATE (b)	1/42.39	12/137.26
POLY-3 PERCENT (g)	2.4%	8.7%
TERMINAL (d)	0/7 (0%)	0/36 (0%)
FIRST INCIDENCE	710	504
HC TUMORS SAME ROUTE	15/349 (4%)	
HC TUMORS ALL ROUTES	74/1585 (5%)	
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.146	P=0.146
POLY 1.5	P=0.132	P=0.132
POLY 6	P=0.173	P=0.173
COCH-ARM / FISHERS	P=0.131	P=0.127
MAX-ISO-POLY-3	P=0.132	P=0.132
HISTCONT SAME RTE	P=0.156	P=0.225
HISTCONT ALL RTEs	P=0.144	P=0.192
CURR VS HC SAME RTE	P=0.342	
CURR VS HC ALL RTEs	P=0.294	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Skin		
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma		
TUMOR RATES	#	#
OVERALL(a)	1/68 (1%)	10/208 (5%)
POLY-3 RATE (b)	1/42.39	10/136.41
POLY-3 PERCENT (g)	2.4%	7.3%
TERMINAL (d)	0/7 (0%)	0/36 (0%)
FIRST INCIDENCE	710	504
HC TUMORS SAME ROUTE	15/349 (4%)	
HC TUMORS ALL ROUTES	66/1585 (4%)	
STATISTICAL TESTS		
POLY 3	P=0.211	P=0.211
POLY 1.5	P=0.195	P=0.195
POLY 6	P=0.240	P=0.240
COCH-ARM / FISHERS	P=0.194	P=0.199
MAX-ISO-POLY-3	P=0.174	P=0.174
HISTCONT SAME RTE	P=0.311	P=0.397
HISTCONT ALL RTEs	P=0.233	P=0.275
CURR VS HC SAME RTE	P=0.342	
CURR VS HC ALL RTEs	P=0.357	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Testes		
Adenoma		
TUMOR RATES		
OVERALL(a)	32/66 (48%)	93/191 (49%)
POLY-3 RATE (b)	32/49.54	93/143.73
POLY-3 PERCENT (g)	64.6%	64.7%
TERMINAL (d)	4/7 (57%)	27/35 (77%)
FIRST INCIDENCE	549	373
HC TUMORS SAME ROUTE	232/349 (66%)	
HC TUMORS ALL ROUTES	1349/1581 (85%)	
STATISTICAL TESTS		
POLY 3	P=0.570	P=0.570
POLY 1.5	P=0.551	P=0.551
POLY 6	P=0.589	P=0.589
COCH-ARM / FISHERS	P=0.545	P=0.546
MAX-ISO-POLY-3	P=0.495	P=0.495
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.016*	
CURR VS HC ALL RTEs	P=0.000**	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Thyroid Gland: C-Cell		
Adenoma		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	2/56 (4%)	6/155 (4%)
POLY-3 RATE (b)	2/36.73	6/111.99
POLY-3 PERCENT (g)	5.4%	5.4%
TERMINAL (d)	1/7 (14%)	2/36 (6%)
FIRST INCIDENCE	754	479
HC TUMORS SAME ROUTE	38/340 (11%)	
HC TUMORS ALL ROUTES	212/1539 (14%)	
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.652N	P=0.652N
POLY 1.5	P=0.644	P=0.644
POLY 6	P=0.617N	P=0.617N
COCH-ARM / FISHERS	P=0.621	P=0.675N
MAX-ISO-POLY-3	P=0.494N	P=0.494N
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.101	
CURR VS HC ALL RTEs	P=0.046*	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Thyroid Gland: C-Cell Carcinoma		
TUMOR RATES	#	#
OVERALL(a)	1/56 (2%)	2/155 (1%)
POLY-3 RATE (b)	1/36.79	2/111.18
POLY-3 PERCENT (g)	2.7%	1.8%
TERMINAL (d)	0/7 (0%)	0/36 (0%)
FIRST INCIDENCE	737	691
HC TUMORS SAME ROUTE	9/340 (3%)	
HC TUMORS ALL ROUTES	44/1539 (3%)	
STATISTICAL TESTS		
POLY 3	P=0.627N	P=0.627N
POLY 1.5	P=0.639N	P=0.639N
POLY 6	P=0.607N	P=0.607N
COCH-ARM / FISHERS	P=0.652N	P=0.606N
MAX-ISO-POLY-3	P=0.393N	P=0.393N
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.752	
CURR VS HC ALL RTEs	P=0.694	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Thyroid Gland: C-Cell Carcinoma or Adenoma		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	3/56 (5%)	8/155 (5%)
POLY-3 RATE (b)	3/36.91	8/112.46
POLY-3 PERCENT (g)	8.1%	7.1%
TERMINAL (d)	1/7 (14%)	2/36 (6%)
FIRST INCIDENCE	737	479
HC TUMORS SAME ROUTE	46/340 (14%)	
HC TUMORS ALL ROUTES	249/1539 (16%)	
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.562N	P=0.562N
POLY 1.5	P=0.589N	P=0.589N
POLY 6	P=0.518N	P=0.518N
COCH-ARM / FISHERS	P=0.616N	P=0.596N
MAX-ISO-POLY-3	P=0.436N	P=0.436N
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.131	
CURR VS HC ALL RTEs	P=0.051	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Thyroid Gland: Follicular Cell		
Adenoma		
TUMOR RATES	#	#
OVERALL(a)	0/56 (0%)	7/155 (5%)
POLY-3 RATE (b)	0/36.61	7/111.81
POLY-3 PERCENT (g)	0%	6.3%
TERMINAL (d)	0/7 (0%)	2/36 (6%)
FIRST INCIDENCE	---	691
HC TUMORS SAME ROUTE	2/340 (1%)	
HC TUMORS ALL ROUTES	13/1539 (1%)	
STATISTICAL TESTS		
POLY 3	P=0.140	P=0.140
POLY 1.5	P=0.128	P=0.128
POLY 6	P=0.161	P=0.161
COCH-ARM / FISHERS	P=0.119	P=0.111
MAX-ISO-POLY-3	P=0.111	P=0.111
HISTCONT SAME RTE	P=0.002**	P=0.009**
HISTCONT ALL RTEs	P=0.000**	P=0.000**
CURR VS HC SAME RTE	P=0.565	
CURR VS HC ALL RTEs	P=0.659	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Thyroid Gland: Follicular Cell Carcinoma		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	0/56 (0%)	3/155 (2%)
POLY-3 RATE (b)	0/36.61	3/110.70
POLY-3 PERCENT (g)	0%	2.7%
TERMINAL (d)	0/7 (0%)	3/36 (8%)
FIRST INCIDENCE	---	787(T)
HC TUMORS SAME ROUTE	5/340 (1%)	
HC TUMORS ALL ROUTES	21/1539 (1%)	
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.373	P=0.373
POLY 1.5	P=0.361	P=0.361
POLY 6	P=0.394	P=0.394
COCH-ARM / FISHERS	P=0.348	P=0.394
MAX-ISO-POLY-3	P=0.214	P=0.214
HISTCONT SAME RTE	P=0.331	P=1.000
HISTCONT ALL RTEs	P=0.261	P=0.387
CURR VS HC SAME RTE	P=0.410	
CURR VS HC ALL RTEs	P=0.476	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Thyroid Gland: Follicular Cell Carcinoma or Adenoma		
TUMOR RATES	#	#
OVERALL(a)	0/56 (0%)	10/155 (6%)
POLY-3 RATE (b)	0/36.61	10/111.81
POLY-3 PERCENT (g)	0%	8.9%
TERMINAL (d)	0/7 (0%)	5/36 (14%)
FIRST INCIDENCE	---	691
HC TUMORS SAME ROUTE	7/340 (2%)	
HC TUMORS ALL ROUTES	34/1539 (2%)	
STATISTICAL TESTS		
POLY 3	P=0.070	P=0.070
POLY 1.5	P=0.063	P=0.063
POLY 6	P=0.085	P=0.085
COCH-ARM / FISHERS	P=0.057	P=0.042*
MAX-ISO-POLY-3	P=0.069	P=0.069
HISTCONT SAME RTE	P=0.003**	P=0.013*
HISTCONT ALL RTEs	P=0.000**	P<0.001**
CURR VS HC SAME RTE	P=0.284	
CURR VS HC ALL RTEs	P=0.338	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Tissue NOS		
Fibroma		
TUMOR RATES	#	#
OVERALL(a)	0/68 (0%)	3/208 (1%)
POLY-3 RATE (b)	0/42.12	3/133.92
POLY-3 PERCENT (g)	0%	2.2%
TERMINAL (d)	0/7 (0%)	1/36 (3%)
FIRST INCIDENCE	---	649
HC TUMORS SAME ROUTE	0/349 (0%)	
HC TUMORS ALL ROUTES	2/1585 (0%)	
STATISTICAL TESTS		
POLY 3	P=0.384	P=0.384
POLY 1.5	P=0.374	P=0.374
POLY 6	P=0.402	P=0.402
COCH-ARM / FISHERS	P=0.374	P=0.426
MAX-ISO-POLY-3	P=0.217	P=0.217
HISTCONT SAME RTE	P<0.001**	P=0.016*
HISTCONT ALL RTEs	P<0.001**	P=0.004**
CURR VS HC SAME RTE	P=1.000	
CURR VS HC ALL RTEs	P=0.606	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
Tissue NOS		
Fibrosarcoma		
TUMOR RATES	#	#
OVERALL(a)	1/68 (1%)	4/208 (2%)
POLY-3 RATE (b)	1/42.50	4/134.23
POLY-3 PERCENT (g)	2.4%	3%
TERMINAL (d)	0/7 (0%)	2/36 (6%)
FIRST INCIDENCE	673	479
HC TUMORS SAME ROUTE	0/349 (0%)	
HC TUMORS ALL ROUTES	0/1585 (0%)	
STATISTICAL TESTS		
POLY 3	P=0.623	P=0.623
POLY 1.5	P=0.611	P=0.611
POLY 6	P=0.643	P=0.643
COCH-ARM / FISHERS	P=0.611	P=0.760N
MAX-ISO-POLY-3	P=0.432	P=0.432
HISTCONT SAME RTE	P<0.001**	P=0.010**
HISTCONT ALL RTEs	P=0.000**	P=0.000**
CURR VS HC SAME RTE	P=0.013*	
CURR VS HC ALL RTEs	P=0.000**	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
All Organs		
Benign Tumors		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	53/68 (78%)	163/208 (78%)
POLY-3 RATE (b)	53/57.32	163/177.39
POLY-3 PERCENT (g)	92.5%	91.9%
TERMINAL (d)	7/7 (100%)	35/36 (97%)
FIRST INCIDENCE	373	373
HC TUMORS SAME ROUTE	326/349 (93%)	
HC TUMORS ALL ROUTES	1518/1585 (96%)	
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.572N	P=0.572N
POLY 1.5	P=0.525	P=0.525
POLY 6	P=0.403N	P=0.403N
COCH-ARM / FISHERS	P=0.538	P=0.532
MAX-ISO-POLY-3	P=0.441N	P=0.441N
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.007**	
CURR VS HC ALL RTEs	P=0.000**	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
All Organs		
Leukemia: Lymphocytic, Monocytic, Mononuclear or Undifferentiated		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	40/68 (59%)	108/208 (52%)
POLY-3 RATE (b)	40/55.38	108/168.62
POLY-3 PERCENT (g)	72.2%	64%
TERMINAL (d)	3/7 (43%)	15/36 (42%)
FIRST INCIDENCE	466	94
HC TUMORS SAME ROUTE	179/349 (51%)	
HC TUMORS ALL ROUTES	599/1585 (38%)	
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.150N	P=0.150N
POLY 1.5	P=0.169N	P=0.169N
POLY 6	P=0.136N	P=0.136N
COCH-ARM / FISHERS	P=0.198N	P=0.198N
MAX-ISO-POLY-3	P=0.151N	P=0.162N
HISTCONT SAME RTE	P=0.267	P=0.303
HISTCONT ALL RTEs	P<0.001**	P=0.007**
CURR VS HC SAME RTE	P=0.127	
CURR VS HC ALL RTEs	P=0.000**	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
All Organs		
Malignant Tumors		
TUMOR RATES		
	#	#
OVERALL(a)	47/68 (69%)	131/208 (63%)
POLY-3 RATE (b)	47/57.50	131/173.99
POLY-3 PERCENT (g)	81.7%	75.3%
TERMINAL (d)	4/7 (57%)	23/36 (64%)
FIRST INCIDENCE	466	94
HC TUMORS SAME ROUTE	230/349 (66%)	
HC TUMORS ALL ROUTES	855/1585 (54%)	
STATISTICAL TESTS		
POLY 3	P=0.178N	P=0.178N
POLY 1.5	P=0.190N	P=0.190N
POLY 6	P=0.187N	P=0.187N
COCH-ARM / FISHERS	P=0.220N	P=0.221N
MAX-ISO-POLY-3	P=0.179N	P=0.180N
HISTCONT SAME RTE	P=0.392	P=0.420
HISTCONT ALL RTEs	P=0.002**	P=0.010**
CURR VS HC SAME RTE	P=0.253	
CURR VS HC ALL RTEs	P=0.002**	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
<hr/>		
All Organs		
Malignant and Benign Tumors		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	60/68 (88%)	192/208 (92%)
POLY-3 RATE (b)	60/61.75	192/194.46
POLY-3 PERCENT (g)	97.2%	98.7%
TERMINAL (d)	7/7 (100%)	36/36 (100%)
FIRST INCIDENCE	373	94
HC TUMORS SAME ROUTE	342/349 (98%)	
HC TUMORS ALL ROUTES	1553/1585 (98%)	
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.333	P=0.333
POLY 1.5	P=0.199	P=0.199
POLY 6	P=0.664	P=0.664
COCH-ARM / FISHERS	P=0.216	P=0.212
MAX-ISO-POLY-3	P=0.136	P=0.136
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.012*	
CURR VS HC ALL RTEs	P=0.000**	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
All Organs		
Mesothelioma: Benign, Malignant, NOS		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	5/68 (7%)	1/208 (0%)
POLY-3 RATE (b)	5/43.29	1/133.27
POLY-3 PERCENT (g)	11.6%	0.8%
TERMINAL (d)	1/7 (14%)	1/36 (3%)
FIRST INCIDENCE	614	787(T)
HC TUMORS SAME ROUTE	14/349 (4%)	
HC TUMORS ALL ROUTES	56/1585 (4%)	
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.001N**	P=0.001N**
POLY 1.5	P=0.002N**	P=0.002N**
POLY 6	P=0.001N**	P=0.001N**
COCH-ARM / FISHERS	P=0.002N**	P=0.004N**
MAX-ISO-POLY-3	P=0.002N**	P=0.003N**
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.165	
CURR VS HC ALL RTEs	P=0.070	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
All Organs		
Mesothelioma: Malignant		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	4/68 (6%)	0/208 (0%)
POLY-3 RATE (b)	4/43.03	0/133.27
POLY-3 PERCENT (g)	9.3%	0%
TERMINAL (d)	1/7 (14%)	0/36 (0%)
FIRST INCIDENCE	614	---
HC TUMORS SAME ROUTE	11/349 (3%)	
HC TUMORS ALL ROUTES	50/1585 (3%)	
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.001N**	P=0.001N**
POLY 1.5	P=0.001N**	P=0.001N**
POLY 6	P=0.001N**	P=0.001N**
COCH-ARM / FISHERS	P=0.002N**	P=0.003N**
MAX-ISO-POLY-3	P=0.001N**	P=0.002N**
HISTCONT SAME RTE	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)
CURR VS HC SAME RTE	P=0.215	
CURR VS HC ALL RTEs	P=0.160	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RAT(F 344/N)
LAST REMOVAL AT 112 WEEKS**

MALE		
DOSE	0	10 MG/M3 12 MO
All Organs		
Osteosarcoma or Osteoma		
<hr/>		
TUMOR RATES	#	#
OVERALL(a)	0/68 (0%)	2/208 (1%)
POLY-3 RATE (b)	0/42.12	2/133.71
POLY-3 PERCENT (g)	0%	1.5%
TERMINAL (d)	0/7 (0%)	1/36 (3%)
FIRST INCIDENCE	---	649
HC TUMORS SAME ROUTE	0/349 (0%)	
HC TUMORS ALL ROUTES	7/1585 (0%)	
<hr/>		
STATISTICAL TESTS		
POLY 3	P=0.514	P=0.514
POLY 1.5	P=0.505	P=0.505
POLY 6	P=0.529	P=0.529
COCH-ARM / FISHERS	P=0.505	P=0.567
MAX-ISO-POLY-3	P=0.262	P=0.262
HISTCONT SAME RTE	P<0.001**	P=0.039*
HISTCONT ALL RTEs	P=0.074	P=0.202
CURR VS HC SAME RTE	P=1.000	
CURR VS HC ALL RTEs	P=0.726	

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:35:06

First Dose M/F: NA / NA

Lab: NORTHROP

LEGEND

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

**** END OF REPORT ****