

Experiment Number: 223222

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: **Wollastonite calcium silicates**

CAS Number: 13983-17-0

Date Report Requested: **09/14/2018**

Time Report Requested: **21:39:03**

NTP Study Number:

223222

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	93 ± 2.9	127 ± 3.8	149 ± 1.8	179 ± 9.8	171 ± 8.8
100.0	100 ± 1.2	129 ± 5.7	105 ± 8.0	148 ± 10.9	101 ± 6.7
333.0	84 ± 0.7	110 ± 2.1	106 ± 16.9	133 ± 8.2	108 ± 5.8
1000.0	102 ± 5.9	106 ± 6.1	102 ± 19.0	125 ± 12.3	115 ± 4.9
3333.0	98 ± 4.6 ^P	109 ± 7.8 ^P	103 ± 13.3 ^P	125 ± 6.9 ^P	106 ± 1.9 ^P
10000.0	84 ± 2.3 ^P	83 ± 7.3 ^P	80 ± 1.3 ^P	72 ± 11.6 ^P	107 ± 11.9 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1869 ± 111.4	1114 ± 345.6	1745 ± 144.3
Positive Control ³	1453 ± 50.2	1280 ± 13.3			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	174 ± 5.6
100.0	128 ± 4.4
333.0	127 ± 6.0
1000.0	124 ± 12.7
3333.0	109 ± 8.5
10000.0	65 ± 5.6
Trial Summary	Negative
Positive Control ²	1615 ± 47.1
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 0.6	10 ± 2.3	13 ± 3.9	6 ± 1.8	18 ± 0.3
1.0			13 ± 2.4	8 ± 0.6	22 ± 2.3
3.3			12 ± 1.2	10 ± 4.2	27 ± 4.7
10.0			8 ± 1.5	7 ± 3.2	25 ± 4.6
33.0			13 ± 2.1	10 ± 0.9	31 ± 0.7
100.0	11 ± 2.7	13 ± 1.9	Toxic	Toxic	Toxic
333.0	12 ± 3.1	11 ± 1.2			
1000.0	9 ± 4.3	14 ± 2.2			
3333.0	8 ± 1.2 ^P	19 ± 1.9 ^P			
10000.0	6 ± 1.9 ^P	14 ± 2.9 ^P			
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²			154 ± 8.1		123 ± 1.9
Positive Control ⁴				79 ± 9.6	
Positive Control ³	1381 ± 45.8	1300 ± 37.7			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	5 ± 1.9
1.0	8 ± 2.4
3.3	10 ± 3.5
10.0	6 ± 2.6
33.0	8 ± 1.2
100.0	Toxic
333.0	
1000.0	
3333.0	
10000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	118 ± 4.3
Positive Control ³	

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 3.2	11 ± 1.9	13 ± 0.7	8 ± 1.2	18 ± 1.5
1.0			11 ± 2.2	8 ± 1.5	11 ± 1.7
3.3			10 ± 3.3	7 ± 1.9	11 ± 0.9
10.0			12 ± 1.8	9 ± 2.3	18 ± 1.2
33.0			10 ± 0.9	7 ± 0.9	18 ± 3.5
100.0	11 ± 1.5	8 ± 0.7	Toxic	Toxic	Toxic
333.0	8 ± 2.9	10 ± 0.9			
1000.0	11 ± 1.2	9 ± 0.9			
3333.0	7 ± 1.2 ^p	12 ± 2.7 ^p			
10000.0	5 ± 2.5 ^p	2 ± 0.3 ^p			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			319 ± 50.9		350 ± 58.3
Positive Control ⁴				180 ± 13.1	
Positive Control ⁵	368 ± 80.1	199 ± 41.4			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	5 ± 1.5
1.0	4 ± 1.5
3.3	3 ± 0.3
10.0	6 ± 1.0
33.0	6 ± 3.0
100.0	Toxic
333.0	
1000.0	
3333.0	
10000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	54 ± 5.5
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	16 ± 5.8	20 ± 3.5	36 ± 6.5	20 ± 2.3	39 ± 4.9
100.0	27 ± 1.0	10 ± 2.1	29 ± 2.5	20 ± 3.7	24 ± 4.7
333.0	28 ± 5.8	15 ± 4.3	28 ± 2.5	18 ± 5.0	27 ± 2.3
1000.0	28 ± 2.2	12 ± 0.3	34 ± 1.7	22 ± 1.8	32 ± 1.5
3333.0	28 ± 3.7 ^P	10 ± 2.9 ^P	24 ± 4.1 ^P	17 ± 0.7 ^P	29 ± 4.3 ^P
10000.0	21 ± 5.6 ^P	8 ± 1.2 ^P	31 ± 6.2 ^P	11 ± 1.5 ^P	19 ± 0.9 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1246 ± 194.5	1392 ± 48.2	1834 ± 251.5
Positive Control ⁶	237 ± 70.0	128 ± 6.4			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	24 ± 3.0
100.0	13 ± 1.9
333.0	14 ± 1.5
1000.0	11 ± 4.1
3333.0	9 ± 2.1 ^P
10000.0	9 ± 2.7 ^P
Trial Summary	Negative
Positive Control ²	1644 ± 246.4
Positive Control ⁶	

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LEGEND

Values given as Mean or Mean \pm Standard Error Mean

The number of samples = 3, unless samples marked toxic or contaminated were excluded from mean and SEM calculations

CAS Number = Chemical Abstracts Service registry number

1: Vehicle Control: Dimethyl Sulfoxide

2: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****