

Experiment Number: 301735

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

G06: Ames Summary Data

Test Compound: **Thioglycolic acid**

CAS Number: 68-11-1

Date Report Requested: **09/12/2018**

Time Report Requested: **02:57:20**

NTP Study Number:

301735

Study Result:

Negative

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Test Type: Genetic Toxicology - Bacterial
Mutagenicity**G06: Ames Summary Data**Test Compound: Thioglycolic acid
CAS Number: 68-11-1

Date Report Requested: 09/12/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	91 ± 3.2	129 ± 5.0	100 ± 3.7	133 ± 8.7	83 ± 9.0
33.0	91 ± 10.1	108 ± 9.9	90 ± 7.2	103 ± 2.2	85 ± 1.5
100.0	92 ± 6.7	113 ± 9.2	94 ± 7.2	127 ± 6.4	77 ± 2.5
333.0	81 ± 1.3	113 ± 6.9	107 ± 9.3	101 ± 8.1	101 ± 3.3
1000.0	78 ± 2.3	88 ± 4.7	89 ± 3.0	123 ± 7.5	87 ± 7.5
2000.0			63 ± 5.8	90 ± 3.0 ^s	63 ± 9.6
3333.0	2 ± 0.9 ^s	39 ± 6.3 ^s			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1373 ± 25.2
Positive Control ³			1218 ± 11.7		
Positive Control ⁴				416 ± 10.4	
Positive Control ⁵	1407 ± 48.6	1122 ± 27.6			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	109 ± 4.7
33.0	111 ± 7.9
100.0	100 ± 11.9
333.0	89 ± 4.4
1000.0	104 ± 1.7
2000.0	88 ± 8.3 ^s
3333.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	400 ± 39.4
Positive Control ⁵	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	30 ± 4.9	43 ± 3.4	13 ± 1.5	17 ± 2.6	11 ± 1.2
33.0	26 ± 3.2	38 ± 7.8	7 ± 0.3	14 ± 0.0	7 ± 1.5
100.0	28 ± 4.2	41 ± 1.2	11 ± 1.5	14 ± 3.1	9 ± 1.5
333.0	23 ± 1.8	41 ± 4.3	9 ± 0.3	14 ± 2.5	9 ± 2.3
1000.0	9 ± 4.9	28 ± 5.0	9 ± 0.9	11 ± 0.9	7 ± 1.2
2000.0			6 ± 2.0	10 ± 2.0 ^s	10 ± 1.2
3333.0	1 ± 0.3 ^s	13 ± 1.5 ^s			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					122 ± 11.5
Positive Control ³			89 ± 2.0		
Positive Control ⁴				121 ± 8.4	
Positive Control ⁵	1065 ± 17.4	531 ± 10.7			

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	15 ± 3.2
33.0	15 ± 1.5
100.0	16 ± 1.7
333.0	12 ± 2.3
1000.0	11 ± 2.0
2000.0	10 ± 1.2 ^s
3333.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	154 ± 5.9
Positive Control ⁵	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	89 ± 3.8	59 ± 2.0	126 ± 9.9	152 ± 1.2	132 ± 5.3
33.0	99 ± 9.8	72 ± 2.7	139 ± 3.8	136 ± 6.4	125 ± 12.5
100.0	85 ± 5.8	78 ± 4.9	121 ± 7.2	147 ± 1.5	144 ± 10.9
333.0	109 ± 8.2	80 ± 1.2	131 ± 7.0	153 ± 7.5	117 ± 19.2
1000.0	25 ± 8.7	27 ± 8.3 ^s	152 ± 9.7	159 ± 3.5	155 ± 3.1
2000.0			2 ± 2.3	49 ± 5.9 ^s	6 ± 1.5
3333.0	0 ± 0.0 ^s	1 ± 0.7 ^s			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					794 ± 8.4
Positive Control ³			780 ± 9.5		
Positive Control ⁴				344 ± 24.4	
Positive Control ⁶	497 ± 11.7	214 ± 16.3			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	130 ± 19.9
33.0	127 ± 3.5
100.0	136 ± 1.0
333.0	154 ± 1.3
1000.0	159 ± 5.9 ^s
2000.0	41 ± 6.6 ^s
3333.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	342 ± 11.8
Positive Control ⁶	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 2.3	21 ± 0.3	28 ± 1.5	32 ± 2.0	32 ± 3.6
33.0	16 ± 3.5	18 ± 4.3	36 ± 5.2	32 ± 5.0	33 ± 2.0
100.0	12 ± 3.2	17 ± 6.5	28 ± 5.8	33 ± 3.0	38 ± 6.2
333.0	13 ± 2.4	15 ± 1.7	27 ± 2.4	40 ± 5.5	27 ± 0.7
1000.0	21 ± 1.0	20 ± 2.2 ^s	29 ± 1.3	34 ± 3.2	32 ± 2.2
2000.0			26 ± 2.5	36 ± 4.4 ^s	23 ± 1.2
3333.0	5 ± 2.1 ^s	19 ± 1.3 ^s			
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²					1631 ± 83.0
Positive Control ³			1352 ± 8.7		
Positive Control ⁴				296 ± 6.6	
Positive Control ⁷	1548 ± 13.0	1243 ± 28.1			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	37 ± 2.4
33.0	36 ± 1.5
100.0	33 ± 2.0
333.0	40 ± 3.8
1000.0	36 ± 3.1
2000.0	33 ± 1.3 ^s
3333.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	346 ± 2.3
Positive Control ⁷	

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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: Water

2: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 4.0 ug/Plate 9-Aminoacridine

7: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****