

Experiment Number: 649249

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Allyl isothiocyanate

CAS Number: 57-06-7

Date Report Requested: 09/11/2018

Time Report Requested: 05:31:23

NTP Study Number:

649249

Study Result:

Weakly Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	142 ± 4.4	139 ± 5.9	128 ± 2.0	134 ± 1.3	111 ± 21.5
1.0		149 ± 14.8			
3.3	128 ± 5.8	143 ± 10.0	125 ± 3.9		
10.0	138 ± 4.3	143 ± 10.7	132 ± 3.2	132 ± 2.4	115 ± 4.4
33.0	138 ± 8.3	155 ± 6.1	142 ± 7.9	128 ± 12.1	132 ± 13.1
100.0	161 ± 9.3 ^s	164 ± 10.2 ^s	159 ± 11.7	156 ± 4.7	137 ± 6.2
200.0				168 ± 3.8	172 ± 10.0
250.0				189 ± 6.4	160 ± 10.4
333.0	Toxic		179 ± 17.3 ^s	197 ± 10.4	174 ± 17.8
350.0				179 ± 13.4	173 ± 4.7
400.0				208 ± 14.5 ^s	155 ± 7.5 ^s
Trial Summary	Negative	Negative	Equivocal	Weakly Positive	Weakly Positive
Positive Control ²					
Positive Control ³			799 ± 22.4	730 ± 16.7	1194 ± 42.6
Positive Control ⁴	1130 ± 36.0	1339 ± 57.7			

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	133 ± 1.7	143 ± 2.2	138 ± 7.2
1.0			
3.3		124 ± 8.7	
10.0	130 ± 5.5	124 ± 16.2	132 ± 1.3
33.0	145 ± 6.4	128 ± 11.5	138 ± 2.9
100.0	171 ± 5.7	149 ± 1.5	144 ± 5.5
200.0	180 ± 9.0		165 ± 6.4
250.0	199 ± 17.3		183 ± 2.5
333.0	171 ± 17.5	184 ± 8.5 ^s	180 ± 4.8
350.0	168 ± 2.9 ^s		176 ± 5.4
400.0	89 ± 26.6 ^s		174 ± 11.3 ^s
Trial Summary	Weakly Positive	Equivocal	Equivocal
Positive Control ²		960 ± 65.5	1024 ± 73.6
Positive Control ³	1283 ± 18.7		
Positive Control ⁴			

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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	27 ± 2.7	28 ± 1.5	16 ± 4.2	17 ± 2.2	13 ± 1.0
1.0		28 ± 5.8			
3.3	29 ± 2.3	20 ± 5.5	11 ± 2.1	12 ± 0.9	11 ± 0.9
10.0	29 ± 4.7	26 ± 2.8	14 ± 2.7	20 ± 6.4	11 ± 1.0
33.0	20 ± 1.5	32 ± 10.5	17 ± 2.4	18 ± 1.9	10 ± 2.5
100.0	15 ± 1.3 ^s	21 ± 0.3 ^s	22 ± 1.5	22 ± 2.7	14 ± 2.8
333.0	Toxic		20 ± 1.9 ^s	24 ± 3.9 ^s	8 ± 1.2 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					71 ± 0.3
Positive Control ³			46 ± 1.8	64 ± 2.9	
Positive Control ⁴	875 ± 35.4	950 ± 47.4			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 3.4
1.0	
3.3	11 ± 2.8
10.0	14 ± 1.3
33.0	12 ± 2.5
100.0	11 ± 0.6
333.0	5 ± 1.2 ^s
Trial Summary	Negative
Positive Control ²	83 ± 1.2
Positive Control ³	
Positive Control ⁴	

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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	4 ± 0.9	5 ± 1.5	6 ± 1.8	5 ± 0.3	11 ± 2.0
1.0		8 ± 1.3			
3.3	5 ± 1.5	5 ± 0.9	6 ± 2.5	7 ± 0.7	6 ± 1.3
10.0	5 ± 1.0	9 ± 3.5	5 ± 1.0	4 ± 1.0	11 ± 3.3
33.0	5 ± 1.2	8 ± 3.8	6 ± 0.6	9 ± 6.0	10 ± 3.8
100.0	5 ± 1.0 ^s	Toxic	7 ± 0.3	6 ± 0.9	6 ± 1.2
333.0	Toxic		5 ± 0.6 ^s	5 ± 0.0 ^s	6 ± 1.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					106 ± 9.6
Positive Control ³			76 ± 13.7	59 ± 6.1	
Positive Control ⁵	217 ± 15.5	563 ± 55.2			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.9
1.0	
3.3	6 ± 1.5
10.0	5 ± 0.6
33.0	6 ± 1.8
100.0	6 ± 1.2
333.0	3 ± 0.7 ^s
Trial Summary	Negative
Positive Control ²	70 ± 4.2
Positive Control ³	
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 ± 2.3	20 ± 3.6	20 ± 2.6	23 ± 2.9	27 ± 0.3
1.0		18 ± 1.5			
3.3	17 ± 0.9	20 ± 3.9	30 ± 2.3	26 ± 2.2	20 ± 1.3
10.0	20 ± 4.9	24 ± 0.9	24 ± 3.2	28 ± 1.5	23 ± 2.2
33.0	21 ± 1.2	21 ± 5.9	26 ± 2.3	27 ± 0.9	24 ± 2.3
100.0	13 ± 2.9 ^s	21 ± 3.0 ^s	32 ± 4.6	24 ± 2.0	23 ± 4.7
333.0	Toxic		23 ± 4.2 ^s	31 ± 5.0	13 ± 3.6 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					966 ± 27.3
Positive Control ³			531 ± 48.4	438 ± 6.9	
Positive Control ⁶	1485 ± 15.5	1121 ± 59.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	20 ± 2.3
1.0	
3.3	23 ± 3.2
10.0	22 ± 0.6
33.0	23 ± 1.3
100.0	22 ± 2.6
333.0	16 ± 2.0 ^s
Trial Summary	Negative
Positive Control ²	981 ± 60.3
Positive Control ³	
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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****