

Experiment Number: 431045

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

G06: Ames Summary Data

Test Compound: **Allyl propyl disulfide**

CAS Number: 2179-59-1

Date Report Requested: **09/10/2018**

Time Report Requested: **20:39:33**

NTP Study Number:

431045

Study Result:

Negative

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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	113 ± 12.9	102 ± 3.7	130 ± 0.6	112 ± 2.2	134 ± 2.9
1.0		99 ± 7.9			
3.0	113 ± 12.7	83 ± 5.4	162 ± 7.3	114 ± 5.4	97 ± 5.6
10.0	89 ± 1.5	100 ± 13.0	145 ± 10.9	123 ± 1.0	109 ± 3.0
33.0	100 ± 5.0	90 ± 4.8	150 ± 3.0	102 ± 9.9	118 ± 11.6
100.0	74 ± 6.2	81 ± 8.4	168 ± 16.6	99 ± 4.6	118 ± 12.6
333.0	Toxic		143 ± 15.7	95 ± 9.9	60 ± 18.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			414 ± 22.7	229 ± 13.6	713 ± 12.3
Positive Control ³	235 ± 32.0	274 ± 18.1			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	93 ± 3.2
1.0	
3.0	101 ± 1.0
10.0	110 ± 0.7
33.0	97 ± 4.9
100.0	97 ± 3.3
333.0	37 ± 13.4
Trial Summary	Negative
Positive Control ²	411 ± 25.1
Positive Control ³	

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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	18 ± 0.6	24 ± 4.0	7 ± 0.6	13 ± 1.8	6 ± 1.5
1.0		20 ± 2.1			
3.0	15 ± 3.1	21 ± 3.5	8 ± 3.5	11 ± 1.0	9 ± 2.3
10.0	22 ± 6.0	20 ± 1.9	7 ± 0.5	10 ± 2.0	10 ± 3.2
33.0	21 ± 2.2	17 ± 6.4	13 ± 3.2	15 ± 0.9	9 ± 3.0
100.0	11 ± 5.8	10 ± 3.9	6 ± 0.6	9 ± 1.5	7 ± 0.9
333.0	0 ± 0.0 ^s		6 ± 1.0	11 ± 1.0	6 ± 1.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	259 ± 25.3	198 ± 6.9			
Positive Control ⁴			140 ± 15.0	93 ± 4.1	346 ± 24.5

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	7 ± 0.0
1.0	
3.0	7 ± 1.0
10.0	9 ± 0.5
33.0	7 ± 0.9
100.0	7 ± 0.3
333.0	5 ± 2.0
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	571 ± 14.5

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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	178 ± 19.1	142 ± 1.5	201 ± 8.8	203 ± 4.4	178 ± 15.6
1.0		133 ± 2.7			
3.0	170 ± 11.9	140 ± 1.8	175 ± 14.2	205 ± 5.2	193 ± 15.9
10.0	184 ± 6.1	135 ± 6.4	170 ± 20.3	189 ± 11.0	196 ± 17.1
33.0	155 ± 1.9	126 ± 7.2	161 ± 8.0	199 ± 0.9	205 ± 27.1
100.0	102 ± 2.4	104 ± 2.3	171 ± 9.9	160 ± 11.0	180 ± 5.2
333.0	Toxic		125 ± 14.2	146 ± 11.6	74 ± 17.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			506 ± 60.0	416 ± 34.9	634 ± 37.8
Positive Control ⁵	339 ± 34.8	564 ± 48.7			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	154 ± 0.6
1.0	
3.0	143 ± 15.7
10.0	140 ± 17.9
33.0	135 ± 19.5
100.0	125 ± 11.9
333.0	28 ± 8.4 ^s
Trial Summary	Negative
Positive Control ⁴	950 ± 10.3
Positive Control ⁵	

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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	21 ± 5.2	13 ± 2.0	21 ± 4.4	33 ± 4.3	20 ± 2.6
1.0		14 ± 2.4			
3.0	29 ± 2.0	14 ± 1.9	23 ± 2.3	23 ± 2.6	23 ± 3.9
10.0	29 ± 1.3	51 ± 31.8	14 ± 3.3	26 ± 1.2	21 ± 2.6
33.0	21 ± 2.8	12 ± 0.3	21 ± 4.0	25 ± 4.0	20 ± 4.5
100.0	23 ± 3.2	11 ± 1.5	19 ± 0.6	21 ± 2.4	22 ± 3.0
333.0	Toxic		7 ± 0.6	16 ± 1.7	0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			183 ± 6.4	116 ± 21.6	339 ± 22.4
Positive Control ⁶	380 ± 20.2	512 ± 23.4			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	24 ± 1.2
1.0	
3.0	18 ± 1.8
10.0	19 ± 0.6
33.0	19 ± 1.2
100.0	17 ± 2.3
333.0	1 ± 1.3 ^s
Trial Summary	Negative
Positive Control ²	350 ± 50.3
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: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****