

Experiment Number: 521783

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

G06: Ames Summary Data

Test Compound: **Allyl isothiocyanate**

CAS Number: 57-06-7

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

Time Report Requested: **17:43:17**

NTP Study Number:

521783

Study Result:

Negative

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G06: Ames Summary Data

Test Compound: Allyl isothiocyanate

CAS Number: 57-06-7

Date Report Requested: 09/12/2018

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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	132 ± 8.2	108 ± 7.4	158 ± 6.2	149 ± 0.3	179 ± 9.9
1.0	124 ± 15.4	157 ± 11.9			
3.0	45 ± 7.9 ^s	131 ± 7.5			
10.0	48 ± 11.3 ^s	141 ± 4.1	163 ± 6.0	141 ± 3.5	182 ± 17.3
33.0	0 ± 0.0 ^s	154 ± 1.5	157 ± 10.1	163 ± 5.2	187 ± 28.7
100.0	Toxic	147 ± 3.6	147 ± 5.6	160 ± 0.9	171 ± 3.5
333.0			159 ± 3.8	119 ± 9.9	168 ± 2.5
1000.0			167 ± 3.8	78 ± 16.8 ^s	182 ± 8.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	700 ± 5.5	261 ± 15.6			
Positive Control ³			1079 ± 36.4	856 ± 47.1	2409 ± 23.4

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	124 ± 10.1
1.0	
3.0	
10.0	134 ± 6.3
33.0	126 ± 2.0
100.0	131 ± 5.0
333.0	115 ± 7.9
1000.0	83 ± 3.9 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	2192 ± 104.9

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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	12 ± 4.1	32 ± 2.3	9 ± 2.7	16 ± 0.9	13 ± 0.0
1.0	12 ± 2.3	35 ± 8.1			
3.0	10 ± 2.3	36 ± 5.2			
10.0	15 ± 0.3	32 ± 0.9	5 ± 0.7	15 ± 0.6	12 ± 2.0
33.0	13 ± 2.6	40 ± 1.2	5 ± 0.7	14 ± 3.8	16 ± 2.0
100.0	15 ± 1.5	28 ± 1.8	3 ± 1.5	15 ± 1.5	20 ± 3.0
333.0			6 ± 1.7	15 ± 1.5	13 ± 3.0
1000.0			6 ± 0.7	9 ± 5.5 ^s	15 ± 3.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	294 ± 30.5	569 ± 30.8			
Positive Control ⁴			225 ± 18.5	287 ± 19.5	514 ± 7.3

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 2.4
1.0	
3.0	
10.0	12 ± 2.3
33.0	12 ± 2.0
100.0	11 ± 2.6
333.0	14 ± 2.9
1000.0	18 ± 3.9
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	649 ± 51.5

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Test Type: Genetic Toxicology - Bacterial
Mutagenicity**G06: Ames Summary Data**

Test Compound: Allyl isothiocyanate

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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	5 ± 2.2	12 ± 2.3	6 ± 2.1	13 ± 0.9	6 ± 0.6
1.0	9 ± 2.0	11 ± 2.0			
3.0	9 ± 2.3	10 ± 2.1			
10.0	6 ± 0.6	6 ± 0.6	11 ± 2.3	15 ± 1.9	6 ± 1.5
33.0	6 ± 2.3	12 ± 2.6	6 ± 0.0	12 ± 3.0	8 ± 2.2
100.0	7 ± 1.5	6 ± 1.2	6 ± 1.5	13 ± 0.3	6 ± 0.6
333.0			9 ± 2.2	9 ± 3.0	8 ± 2.3
1000.0			6 ± 1.3	7 ± 1.5 ^s	8 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			269 ± 5.2	165 ± 4.1	657 ± 18.8
Positive Control ⁵	330 ± 31.5	345 ± 67.9			

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Date Report Requested: 09/12/2018

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	14 ± 3.7
1.0	
3.0	
10.0	12 ± 1.5
33.0	13 ± 2.2
100.0	11 ± 0.9
333.0	6 ± 0.7
1000.0	4 ± 0.6 ^s
Trial Summary	Negative
Positive Control ⁴	338 ± 8.5
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	31 ± 6.7	14 ± 2.4	26 ± 6.1	47 ± 7.1	26 ± 5.3
1.0	24 ± 1.5	24 ± 1.8			
3.0	21 ± 2.9	21 ± 3.5			
10.0	27 ± 4.2	20 ± 0.6	25 ± 2.0	50 ± 0.3	26 ± 6.1
33.0	32 ± 4.7	27 ± 6.7	23 ± 4.7	43 ± 3.1	23 ± 4.5
100.0	16 ± 5.9 ^s	30 ± 3.3	20 ± 2.9	40 ± 0.6	29 ± 1.2
333.0			23 ± 2.3	28 ± 1.2	21 ± 3.4
1000.0			23 ± 1.2	5 ± 2.9 ^s	23 ± 1.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			697 ± 40.5	573 ± 10.4	1884 ± 71.5
Positive Control ⁶	961 ± 28.3	821 ± 18.2			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	32 ± 4.1
1.0	
3.0	
10.0	44 ± 6.7
33.0	40 ± 1.9
100.0	34 ± 4.7
333.0	33 ± 3.1
1000.0	4 ± 3.5 ^s
Trial Summary	Negative
Positive Control ³	1753 ± 69.0
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 Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

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 ****