

Experiment Number: 224140

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

G06: Ames Summary Data

Test Compound: **Allyl thiourea**

CAS Number: **109-57-9**

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

Time Report Requested: **21:46:38**

NTP Study Number:

224140

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	89 ± 2.0	97 ± 1.3	90 ± 6.6	113 ± 8.7	89 ± 4.7
100.0	91 ± 4.7	93 ± 2.2	91 ± 2.6	110 ± 3.2	92 ± 3.7
333.0	83 ± 5.6	97 ± 3.0	101 ± 3.0	101 ± 0.3	81 ± 6.8
1000.0	87 ± 8.6	90 ± 2.6	83 ± 3.0	107 ± 2.4	80 ± 3.5
3333.0	80 ± 2.3	93 ± 4.2	84 ± 3.8	105 ± 6.9	78 ± 5.8
10000.0	73 ± 8.5 ^s	73 ± 20.0 ^s	81 ± 1.5	91 ± 4.7	79 ± 0.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					351 ± 9.2
Positive Control ³	464 ± 5.2	414 ± 4.0			
Positive Control ⁴			614 ± 24.0		
Positive Control ⁵					
Positive Control ⁶				610 ± 9.0	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	111 ± 1.5
100.0	89 ± 9.2
333.0	97 ± 8.6
1000.0	98 ± 1.7
3333.0	89 ± 3.8
10000.0	95 ± 1.5
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	348 ± 8.5
Positive Control ⁶	

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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	21 ± 1.7	22 ± 1.2	13 ± 1.7	11 ± 1.9	12 ± 1.5
100.0	22 ± 2.5	20 ± 2.8	12 ± 3.3	12 ± 2.2	10 ± 0.3
333.0	19 ± 1.2	22 ± 0.3	13 ± 2.3	17 ± 2.1	12 ± 2.3
1000.0	17 ± 1.9	19 ± 1.9	10 ± 1.2	10 ± 1.2	9 ± 1.3
3333.0	20 ± 1.0	20 ± 6.0	13 ± 2.7	11 ± 2.8	15 ± 2.5
10000.0	Toxic	9 ± 2.0 ^s	13 ± 0.3	12 ± 3.5	11 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					72 ± 3.8
Positive Control ³	304 ± 10.7	229 ± 6.2			
Positive Control ⁵					
Positive Control ⁷				96 ± 3.8	
Positive Control ⁶			261 ± 14.2		

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	16 ± 2.3
100.0	17 ± 0.0
333.0	11 ± 3.2
1000.0	13 ± 0.3
3333.0	13 ± 0.6
10000.0	15 ± 0.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	95 ± 2.3
Positive Control ⁷	
Positive Control ⁶	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	75 ± 1.5	80 ± 4.6	101 ± 5.5	80 ± 7.9	117 ± 3.8
100.0	78 ± 1.0	97 ± 5.5	90 ± 5.2	86 ± 10.9	110 ± 8.4
333.0	84 ± 7.4	89 ± 3.2	104 ± 3.8	120 ± 4.7	123 ± 3.5
1000.0	79 ± 3.1	80 ± 8.6	93 ± 2.7	75 ± 10.8	114 ± 9.0
3333.0	70 ± 1.2	88 ± 0.9	80 ± 3.3	58 ± 8.3	109 ± 1.5
10000.0	72 ± 2.3 ^s	64 ± 3.2 ^s	70 ± 3.5 ^s	38 ± 1.9 ^s	100 ± 5.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					
Positive Control ⁶					1358 ± 11.2
Positive Control ⁸	332 ± 8.2	156 ± 7.1	119 ± 6.5	630 ± 69.0	

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Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	176 ± 7.1	112 ± 4.9	137 ± 12.7
100.0	201 ± 8.8	119 ± 2.5	186 ± 33.9
333.0	154 ± 4.8	102 ± 12.3	145 ± 14.2
1000.0	163 ± 6.4	104 ± 5.0	124 ± 4.2
3333.0	166 ± 15.8	101 ± 2.0	127 ± 3.9
10000.0	103 ± 6.0	99 ± 0.0	128 ± 9.5
Trial Summary	Negative	Negative	Negative
Positive Control ⁴		583 ± 17.3	
Positive Control ⁶	526 ± 2.6		558 ± 2.5
Positive Control ⁸			

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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	25 ± 2.3	17 ± 3.5	34 ± 6.1	23 ± 1.2	25 ± 2.0
100.0	30 ± 3.0	16 ± 0.6	36 ± 1.9	22 ± 1.2	32 ± 1.7
333.0	20 ± 1.2	15 ± 2.3	37 ± 7.1	22 ± 1.9	33 ± 3.8
1000.0	25 ± 2.6	18 ± 4.5	34 ± 5.2	22 ± 3.5	33 ± 3.5
3333.0	21 ± 5.5	16 ± 2.4	37 ± 2.7	22 ± 2.5	32 ± 3.2
10000.0	18 ± 2.6	8 ± 0.3 ^s	29 ± 4.3	16 ± 4.2	29 ± 3.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁹					136 ± 6.7
Positive Control ²			247 ± 7.8		
Positive Control ¹⁰	216 ± 13.5	168 ± 13.7			
Positive Control ⁵				206 ± 30.9	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	24 ± 7.0
100.0	24 ± 3.1
333.0	23 ± 0.6
1000.0	25 ± 2.0
3333.0	16 ± 1.5
10000.0	20 ± 2.7
Trial Summary	Negative
Positive Control ⁹	
Positive Control ²	93 ± 11.8
Positive Control ¹⁰	
Positive Control ⁵	

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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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 1.5 ug/Plate 2-Aminoanthracene

8: 3.5 ug/Plate 9-Aminoacridine

9: 0.2 ug/Plate 2-Aminoanthracene

10: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****