

Experiment Number: A59926

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

G06: Ames Summary Data

Test Compound: **Isopropyl mercaptan**

CAS Number: 75-33-2

Date Report Requested: **09/17/2018**

Time Report Requested: **08:52:17**

NTP Study Number:

A59926

Study Result:

Negative

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Date Report Requested: 09/17/2018

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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	119 ± 4.0	106 ± 5.4	110 ± 4.7	121 ± 4.6	131 ± 3.8
33.0				132 ± 5.0	
100.0	121 ± 9.0	111 ± 2.1	118 ± 4.7	121 ± 6.4	129 ± 9.2
333.0	126 ± 0.3	119 ± 0.3	114 ± 2.4	110 ± 0.9	132 ± 9.4
1000.0	117 ± 6.6	111 ± 3.8	109 ± 6.1	109 ± 3.1	108 ± 0.6
3333.0	117 ± 10.3	108 ± 0.9	107 ± 0.9	96 ± 9.6	115 ± 3.5
10000.0	85 ± 7.5 ^s	84 ± 3.5 ^s	67 ± 11.0 ^s		60 ± 9.6 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					531 ± 16.1
Positive Control ³			467 ± 13.7		
Positive Control ⁴	845 ± 23.7	813 ± 18.2			
Positive Control ⁵				483 ± 10.7	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	119 ± 13.0
33.0	113 ± 2.0
100.0	122 ± 2.8
333.0	120 ± 9.4
1000.0	126 ± 8.5
3333.0	109 ± 9.5
10000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	544 ± 17.6
Positive Control 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	12 ± 1.0	11 ± 1.2	16 ± 2.3	8 ± 0.3	13 ± 1.5
100.0	9 ± 0.0	13 ± 2.2	9 ± 0.3	10 ± 1.9	11 ± 1.0
333.0	10 ± 0.3	10 ± 0.9	11 ± 1.5	9 ± 0.3	10 ± 0.3
1000.0	9 ± 0.7	12 ± 2.5	12 ± 2.9	9 ± 0.3	9 ± 1.2
3333.0	9 ± 0.9	12 ± 2.7	11 ± 1.5	9 ± 0.0	11 ± 1.8
6666.0				4 ± 0.7 ^s	
10000.0	9 ± 0.9	7 ± 0.9 ^s	5 ± 0.3 ^s		6 ± 1.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					99 ± 7.5
Positive Control ⁵			86 ± 7.6		
Positive Control ⁴	868 ± 23.0	784 ± 41.7			
Positive Control ⁶				121 ± 2.3	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 1.5
100.0	8 ± 0.3
333.0	10 ± 1.0
1000.0	11 ± 1.7
3333.0	9 ± 0.3
6666.0	3 ± 0.9 ^s
10000.0	
Trial Summary	Negative
Positive Control ³	
Positive Control ⁵	253 ± 26.0
Positive Control ⁴	
Positive Control ⁶	

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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	177 ± 16.2	156 ± 4.9	175 ± 9.1	206 ± 4.7	141 ± 16.0
100.0	183 ± 8.4	138 ± 4.1	151 ± 4.0	190 ± 10.7	166 ± 10.4
333.0	187 ± 20.3	135 ± 2.4	152 ± 3.2	178 ± 4.9	166 ± 10.7
1000.0	184 ± 14.1	143 ± 7.2	152 ± 8.3	214 ± 10.3	159 ± 5.7
3333.0	171 ± 6.7	146 ± 18.8	138 ± 6.1	195 ± 13.6	170 ± 3.0
6666.0				107 ± 7.0 ^s	
10000.0	76 ± 4.6 ^s	88 ± 5.5 ^s	132 ± 3.2		135 ± 16.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					629 ± 13.9
Positive Control ³			583 ± 23.5		
Positive Control ⁵				537 ± 13.3	
Positive Control ⁷	549 ± 26.0	526 ± 27.8			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	186 ± 17.9
100.0	196 ± 15.9
333.0	178 ± 9.5
1000.0	183 ± 5.3
3333.0	178 ± 6.1
6666.0	112 ± 14.3 ^s
10000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	603 ± 19.1
Positive Control ⁵	
Positive Control ⁷	

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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 ± 1.9	20 ± 3.4	24 ± 1.8	33 ± 3.1	19 ± 1.2
33.0				31 ± 5.9	
100.0	24 ± 1.3	17 ± 2.7	19 ± 1.2	33 ± 3.5	14 ± 2.7
333.0	22 ± 3.1	18 ± 1.8	24 ± 3.2	29 ± 6.1	16 ± 3.5
1000.0	20 ± 3.5	16 ± 0.3	19 ± 1.2	29 ± 3.8	17 ± 2.6
3333.0	19 ± 3.3	20 ± 2.7	22 ± 3.4	20 ± 2.6	20 ± 2.6
10000.0	22 ± 2.1	9 ± 0.3 ^s	9 ± 1.5 ^s		8 ± 0.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					788 ± 34.6
Positive Control ³			538 ± 27.2		
Positive Control ⁸	410 ± 14.6	415 ± 6.6			
Positive Control ⁵				644 ± 51.2	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	29 ± 5.8
33.0	30 ± 4.7
100.0	36 ± 3.0
333.0	39 ± 3.2
1000.0	36 ± 4.4
3333.0	30 ± 3.3
10000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	558 ± 16.2
Positive Control ⁸	
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: 1.0 ug/Plate 2-Aminoanthracene

3: 2.0 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 5.0 ug/Plate 2-Aminoanthracene

6: 10.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****