

Experiment Number: 898981

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Toluene ethylsulfonamide

CAS Number: 8047-99-2

Date Report Requested: 09/16/2018

Time Report Requested: 22:46:47

NTP Study Number:

898981

Study Result:

Weakly Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 5% Hamster S9
Vehicle Control ¹	107 ± 4.6	170 ± 1.0	168 ± 10.0	95 ± 2.7	96 ± 14.5
33.0	103 ± 2.1	174 ± 6.1	177 ± 5.8	109 ± 7.5	90 ± 7.5
100.0	98 ± 2.3	168 ± 8.9	171 ± 7.3	97 ± 6.4	87 ± 9.7
333.0	127 ± 5.8	154 ± 6.8	162 ± 7.3	108 ± 7.0	106 ± 10.7
1000.0	143 ± 10.1	204 ± 14.4	172 ± 14.7	124 ± 1.2	95 ± 2.5
2000.0	139 ± 5.8	46 ± 2.3 ^s	112 ± 14.2 ^s	121 ± 8.4	101 ± 1.9 ^s
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²					2004 ± 22.4
Positive Control ³			3669 ± 72.2	1484 ± 32.6	
Positive Control ⁴	753 ± 17.9	685 ± 37.8			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	99 ± 6.4
33.0	89 ± 11.4
100.0	81 ± 6.8
333.0	79 ± 2.2
1000.0	80 ± 6.6
2000.0	80 ± 5.7
Trial Summary	Negative
Positive Control ²	867 ± 90.8
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9
Vehicle Control ¹	34 ± 2.0	24 ± 5.8	24 ± 2.0	13 ± 2.2	15 ± 0.7
33.0	33 ± 3.1	33 ± 4.4	28 ± 3.0	13 ± 0.9	17 ± 2.1
100.0	35 ± 3.8	29 ± 2.4	29 ± 1.5	14 ± 1.9	15 ± 2.7
333.0	43 ± 3.2	32 ± 2.1	35 ± 1.5	18 ± 2.3	12 ± 1.2
667.0			45 ± 2.8		
1000.0	59 ± 0.7	43 ± 3.5		19 ± 2.3	21 ± 2.3
1200.0			48 ± 3.0		
2000.0	62 ± 2.6 ^s	13 ± 4.0 ^s		17 ± 3.6 ^s	17 ± 1.5
Trial Summary	Weakly Positive	Equivocal	Weakly Positive	Negative	Negative
Positive Control ²					
Positive Control ³				109 ± 5.2	148 ± 7.0
Positive Control ⁴	880 ± 41.1	706 ± 13.5	974 ± 34.3		

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Strain: TA1535

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	11 ± 0.7	9 ± 0.6
33.0	13 ± 0.9	12 ± 1.3
100.0	16 ± 1.7	13 ± 1.3
333.0	18 ± 3.2	17 ± 2.8
667.0		
1000.0	16 ± 2.0	11 ± 2.3
1200.0		
2000.0	18 ± 1.5 ^s	13 ± 0.3
Trial Summary	Negative	Negative
Positive Control ²	182 ± 8.3	96 ± 8.4
Positive Control ³		
Positive Control ⁴		

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 5% Hamster S9
Vehicle Control ¹	122 ± 10.2	76 ± 2.1	159 ± 15.8	157 ± 5.9	116 ± 4.0
33.0	107 ± 3.4	81 ± 6.2	160 ± 1.3	159 ± 3.5	112 ± 10.0
100.0	105 ± 3.5	91 ± 18.5	159 ± 10.8	153 ± 4.0	118 ± 12.3
333.0	100 ± 9.0	88 ± 1.9	155 ± 12.6	154 ± 3.2	123 ± 4.3
1000.0	116 ± 10.4	103 ± 4.7	168 ± 12.5	164 ± 1.8	136 ± 12.7
2000.0	Toxic	59 ± 10.5 ^s	140 ± 14.3 ^s	164 ± 2.3	118 ± 7.4 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1480 ± 29.8
Positive Control ³			1477 ± 31.9	1594 ± 36.7	
Positive Control ⁵	464 ± 22.5	996 ± 11.6			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	140 ± 8.2
33.0	144 ± 9.7
100.0	134 ± 4.8
333.0	146 ± 6.9
1000.0	161 ± 3.8
2000.0	157 ± 5.0
Trial Summary	Negative
Positive Control ²	1060 ± 19.5
Positive Control ³	
Positive Control ⁵	

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Test Compound: Toluene ethylsulfonamide

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 5% Rat S9	With 10% Rat S9
Vehicle Control ¹	20 ± 1.2	19 ± 0.0	34 ± 3.3	34 ± 2.0	39 ± 4.9
33.0	17 ± 3.7	16 ± 3.5	63 ± 11.8	30 ± 2.2	38 ± 3.2
100.0	21 ± 2.6	13 ± 2.7	68 ± 10.7	30 ± 0.6	33 ± 3.0
333.0	19 ± 2.0	16 ± 1.5	44 ± 5.9	31 ± 3.0	35 ± 3.2
1000.0	20 ± 2.3	17 ± 1.9	34 ± 1.2	20 ± 2.1	33 ± 1.9
2000.0	18 ± 1.7	15 ± 0.7 ^s	35 ± 6.3 ^s	20 ± 2.7 ^s	39 ± 3.0
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ²					
Positive Control ³			2987 ± 92.3	2409 ± 129.2	1771 ± 48.7
Positive Control ⁶	1697 ± 40.6	2784 ± 27.5			

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Strain: TA98

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	33 ± 2.9	33 ± 1.9
33.0	33 ± 3.3	31 ± 2.8
100.0	27 ± 2.5	31 ± 4.0
333.0	30 ± 3.6	30 ± 1.8
1000.0	36 ± 1.0	33 ± 2.7
2000.0	26 ± 3.0 ^s	31 ± 2.3
Trial Summary	Negative	Negative
Positive Control ²	2151 ± 82.8	982 ± 32.1
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: 4.0 ug/Plate 9-Aminoacridine

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

s: Slight Toxicity

**** END OF REPORT ****