

Experiment Number: 249976

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Bromo-1-ethanol

CAS Number: 540-51-2

Date Report Requested: 09/11/2018

Time Report Requested: 01:43:00

NTP Study Number: 249976

Study Result: Positive

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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	102 ± 8.8	92 ± 3.5	119 ± 2.7	93 ± 5.5	99 ± 10.3
100.0	115 ± 2.7	91 ± 4.5	113 ± 4.6	90 ± 1.0	107 ± 3.9
333.0	123 ± 2.0	89 ± 2.2	120 ± 3.8	105 ± 13.1	107 ± 8.7
1000.0	169 ± 9.0	126 ± 7.8	162 ± 5.7	158 ± 3.3	151 ± 11.4
3333.0	356 ± 18.1	279 ± 9.0 ^s	277 ± 5.8	288 ± 9.3	273 ± 1.5
6667.0				294 ± 32.3 ^s	
10000.0	698 ± 48.3 ^s	445 ± 33.9 ^s	Toxic		Toxic
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					439 ± 28.0
Positive Control ³			767 ± 6.2	1256 ± 23.5	
Positive Control ⁴	956 ± 37.1	882 ± 86.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	100 ± 1.5
100.0	95 ± 6.7
333.0	103 ± 5.8
1000.0	170 ± 8.4
3333.0	306 ± 4.3 ^s
6667.0	317 ± 9.9 ^s
10000.0	
Trial Summary	Positive
Positive Control ²	865 ± 0.0
Positive Control ³	
Positive Control ⁴	

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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	17 ± 2.5	18 ± 2.5	9 ± 1.2	14 ± 0.6	7 ± 1.2
100.0	20 ± 0.9	20 ± 1.5	19 ± 1.8	13 ± 3.5	12 ± 1.9
333.0	30 ± 1.2	31 ± 2.8	30 ± 2.0	36 ± 3.4	26 ± 2.3
1000.0	52 ± 6.6	46 ± 8.6	74 ± 8.2	94 ± 4.2	62 ± 5.4
3333.0	201 ± 9.2	184 ± 18.7	244 ± 6.3	307 ± 33.2	252 ± 7.6
6667.0				378 ± 48.4	
10000.0	573 ± 43.4 ^s	729 ± 13.2 ^s	103 ± 8.2 ^s		Toxic
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					50 ± 2.3
Positive Control ³			63 ± 3.1	102 ± 3.8	
Positive Control ⁴	735 ± 10.0	897 ± 97.6			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 0.3
100.0	14 ± 1.0
333.0	35 ± 2.1
1000.0	82 ± 7.3
3333.0	305 ± 25.1
6667.0	401 ± 13.9 ^s
10000.0	
Trial Summary	Positive
Positive Control ²	84 ± 2.6
Positive Control ³	
Positive Control ⁴	

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	95 ± 5.8	158 ± 3.8	150 ± 4.5
100.0	101 ± 1.9	148 ± 10.0	155 ± 4.1
333.0	99 ± 6.1	169 ± 3.5	149 ± 2.5
1000.0	100 ± 4.7	127 ± 2.9	159 ± 2.9
3333.0	135 ± 3.7	112 ± 5.2	124 ± 5.0
10000.0	112 ± 21.2 ^s	18 ± 1.0 ^s	Toxic
Trial Summary	Equivocal	Negative	Negative
Positive Control ²			475 ± 29.4
Positive Control ³		923 ± 22.5	
Positive Control ⁵	870 ± 22.8		

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G06: Ames Summary Data
Test Compound: 2-Bromo-1-ethanol
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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	30 ± 3.7	43 ± 5.2	33 ± 4.8
100.0	29 ± 0.9	37 ± 3.0	38 ± 3.2
333.0	31 ± 5.0	42 ± 1.2	44 ± 7.8
1000.0	36 ± 0.6	39 ± 4.7	44 ± 2.3
3333.0	38 ± 2.6	37 ± 3.6	32 ± 3.1 ^s
10000.0	44 ± 8.1 ^s	20 ± 3.3 ^s	0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			727 ± 43.3
Positive Control ³		909 ± 5.2	
Positive Control ⁶	1461 ± 34.9		

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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 ****