

Experiment Number: A37029

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

G06: Ames Summary Data

Test Compound: **2-Ethyl-1,3-hexanediol**

CAS Number: **94-96-2**

Date Report Requested: **09/16/2018**

Time Report Requested: **18:45:36**

NTP Study Number:

A37029

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	141 ± 3.5	128 ± 2.2	137 ± 1.5	144 ± 3.5	121 ± 4.3
10.0	145 ± 3.6	127 ± 3.2	134 ± 1.7	144 ± 4.7	124 ± 3.5
33.0	133 ± 3.2	124 ± 3.2	131 ± 3.8	145 ± 1.7	124 ± 2.6
100.0	135 ± 4.8	127 ± 1.9	132 ± 2.6	136 ± 2.7	118 ± 2.9
333.0	131 ± 3.8	126 ± 3.5	120 ± 2.6	147 ± 4.0	122 ± 2.7
1000.0	132 ± 3.5	119 ± 2.8	118 ± 5.8	143 ± 2.2	112 ± 4.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	591 ± 5.8	844 ± 37.9			
Positive Control ³			906 ± 8.7	457 ± 9.0	1017 ± 8.2

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	139 ± 3.2
10.0	143 ± 3.9
33.0	146 ± 3.8
100.0	137 ± 1.2
333.0	142 ± 1.9
1000.0	135 ± 4.1
Trial Summary	Negative
Positive Control ²	
Positive Control ³	859 ± 32.9

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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 ± 1.2	23 ± 1.2	15 ± 1.8	18 ± 1.5	14 ± 2.1
10.0	20 ± 2.0	23 ± 2.8	14 ± 0.7	19 ± 2.2	14 ± 2.4
33.0	22 ± 2.1	16 ± 0.3	14 ± 1.7	19 ± 1.5	14 ± 1.7
100.0	23 ± 1.5	22 ± 2.1	13 ± 0.3	23 ± 1.2	11 ± 1.0
333.0	25 ± 1.2	26 ± 1.8	15 ± 1.5	19 ± 1.0	13 ± 1.8
1000.0	16 ± 2.3	25 ± 2.6	14 ± 1.8	11 ± 1.5	14 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	336 ± 3.9	326 ± 4.4			
Positive Control ³			394 ± 2.4	251 ± 6.9	321 ± 6.7

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	19 ± 1.5
10.0	19 ± 1.2
33.0	15 ± 0.7
100.0	18 ± 1.9
333.0	15 ± 2.6
1000.0	14 ± 0.9
Trial Summary	Negative
Positive Control ²	
Positive Control ³	262 ± 6.4

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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	101 ± 2.6	100 ± 3.3	130 ± 2.2	124 ± 3.1	121 ± 3.2
10.0	119 ± 2.3	97 ± 3.5	128 ± 2.0	128 ± 2.6	121 ± 2.0
33.0	120 ± 1.2	96 ± 3.2	131 ± 1.2	128 ± 4.1	119 ± 3.3
100.0	105 ± 3.1	100 ± 1.7	127 ± 2.2	93 ± 1.5	121 ± 1.2
333.0	96 ± 3.4	96 ± 3.5	130 ± 1.2	98 ± 0.9	120 ± 2.6
1000.0	97 ± 3.2	96 ± 2.0	129 ± 2.1	85 ± 5.2	123 ± 3.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			503 ± 24.5	545 ± 4.8	755 ± 5.1
Positive Control ⁴	459 ± 13.5	445 ± 4.1			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	133 ± 2.7
10.0	131 ± 3.3
33.0	130 ± 2.0
100.0	133 ± 2.7
333.0	124 ± 5.2
1000.0	126 ± 3.5
Trial Summary	Negative
Positive Control ³	889 ± 6.6
Positive Control ⁴	

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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	24 ± 2.1	23 ± 2.1	26 ± 2.2	31 ± 2.2	36 ± 2.8
10.0	24 ± 2.2	26 ± 0.7	32 ± 3.2	27 ± 2.6	33 ± 2.6
33.0	27 ± 1.5	26 ± 1.3	28 ± 3.1	28 ± 1.5	33 ± 1.3
100.0	29 ± 1.0	26 ± 2.7	25 ± 3.2	30 ± 1.5	27 ± 1.3
333.0	26 ± 0.9	21 ± 1.5	29 ± 0.9	34 ± 0.9	27 ± 2.0
1000.0	28 ± 1.3	21 ± 1.0	29 ± 2.7	28 ± 2.3	28 ± 1.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁵	264 ± 7.8	415 ± 7.9			
Positive Control ³			822 ± 8.4	425 ± 8.4	981 ± 7.2

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	32 ± 2.1
10.0	30 ± 5.0
33.0	32 ± 1.2
100.0	31 ± 2.6
333.0	39 ± 2.3
1000.0	37 ± 1.8
Trial Summary	Negative
Positive Control ⁵	
Positive Control ³	556 ± 4.0

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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: 50.0 ug/Plate 9-Aminoacridine
- 5: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****