

Experiment Number: 195794

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Ethylene glycol

CAS Number: 107-21-1

Date Report Requested: 09/14/2018

Time Report Requested: 07:38:42

NTP Study Number:

195794

Study Result:

Negative

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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	160 ± 3.4	105 ± 7.0	252 ± 6.4	189 ± 19.9	247 ± 2.1
100.0	144 ± 6.2	101 ± 3.2	226 ± 12.7	185 ± 7.8	194 ± 11.0
333.0	132 ± 2.2	113 ± 13.1	220 ± 9.9	164 ± 1.2	207 ± 21.0
1000.0	137 ± 3.2	94 ± 2.3	220 ± 7.1	174 ± 12.9	240 ± 15.0
3333.0	150 ± 2.5	112 ± 7.4	196 ± 4.1	202 ± 44.0	246 ± 13.7
10000.0	140 ± 14.0	107 ± 10.4	223 ± 1.2	165 ± 24.0	238 ± 16.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			494 ± 19.7	397 ± 38.1	886 ± 18.9
Positive Control ³	559 ± 41.3	371 ± 38.6			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	222 ± 17.5
100.0	205 ± 15.9
333.0	179 ± 29.3
1000.0	208 ± 4.9
3333.0	241 ± 23.1
10000.0	202 ± 14.8
Trial Summary	Negative
Positive Control ²	852 ± 49.7
Positive Control ³	

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Mutagenicity**G06: Ames Summary Data**

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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	6 ± 2.9	9 ± 0.9	14 ± 2.6	13 ± 2.7	11 ± 0.3
100.0	13 ± 1.5	10 ± 2.1	11 ± 0.3	13 ± 1.8	11 ± 0.9
333.0	13 ± 1.7	10 ± 2.1	14 ± 1.2	13 ± 1.3	12 ± 2.2
1000.0	9 ± 1.0	9 ± 0.9	22 ± 0.3	16 ± 4.2	16 ± 1.3
3333.0	8 ± 2.5	8 ± 0.3	24 ± 1.2	15 ± 2.3	17 ± 2.3
10000.0	7 ± 0.3	8 ± 1.2	24 ± 2.7	15 ± 1.3	16 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			42 ± 6.9	33 ± 3.1	47 ± 11.3
Positive Control ³	466 ± 10.7	449 ± 71.8			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 1.2
100.0	9 ± 1.0
333.0	7 ± 2.7
1000.0	6 ± 1.5
3333.0	9 ± 1.2
10000.0	8 ± 1.2
Trial Summary	Negative
Positive Control ²	48 ± 9.4
Positive Control ³	

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	15 ± 0.9	3 ± 0.3	20 ± 1.0	6 ± 0.9	14 ± 1.7
100.0	12 ± 0.3	4 ± 1.2	16 ± 2.6	8 ± 2.6	12 ± 2.6
333.0	16 ± 3.5	4 ± 1.9	22 ± 1.5	7 ± 1.3	14 ± 3.5
1000.0	15 ± 1.9	3 ± 1.2	15 ± 1.8	10 ± 3.5	15 ± 2.6
3333.0	13 ± 1.0	2 ± 0.3	19 ± 2.1	5 ± 0.3	19 ± 2.9
10000.0	12 ± 3.0	2 ± 0.9	16 ± 2.6	4 ± 0.9	16 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			51 ± 6.3	33 ± 5.0	66 ± 7.8
Positive Control ⁴	186 ± 38.1	154 ± 34.8			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	6 ± 0.9
100.0	5 ± 0.3
333.0	8 ± 2.0
1000.0	7 ± 0.6
3333.0	8 ± 0.9
10000.0	5 ± 1.3
Trial Summary	Negative
Positive Control ²	61 ± 7.2
Positive Control ⁴	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	19 ± 2.8	16 ± 1.7	32 ± 0.7	28 ± 2.3	33 ± 4.7
100.0	24 ± 0.9	18 ± 1.9	26 ± 9.9	24 ± 2.9	38 ± 2.7
333.0	15 ± 2.6	14 ± 0.7	29 ± 1.2	34 ± 4.7	40 ± 7.9
1000.0	21 ± 4.8	18 ± 0.0	32 ± 2.0	28 ± 0.6	37 ± 6.4
3333.0	24 ± 1.5	16 ± 3.1	32 ± 5.8	28 ± 1.2	29 ± 2.1
10000.0	20 ± 2.0	15 ± 1.2	32 ± 4.3	32 ± 2.2	29 ± 1.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			310 ± 31.7	394 ± 23.7	704 ± 107.6
Positive Control ⁵	414 ± 5.8	193 ± 44.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	31 ± 2.7
100.0	28 ± 4.3
333.0	29 ± 4.5
1000.0	29 ± 3.2
3333.0	32 ± 2.9
10000.0	29 ± 2.3
Trial Summary	Negative
Positive Control ²	800 ± 18.3
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: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **