

Experiment Number: 051370

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Chloroethanol (ethylene chlorohydrin)

CAS Number: 107-07-3

Date Report Requested: 09/15/2018

Time Report Requested: 02:16:57

NTP Study Number:

051370

Study Result:

Positive

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Test Compound: 2-Chloroethanol (ethylene chlorohydrin)

CAS Number: 107-07-3

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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	149 ± 5.7	142 ± 7.0	191 ± 12.4	160 ± 22.6	196 ± 19.1
333.0	157 ± 4.3	108 ± 14.4	173 ± 2.5	126 ± 10.5	216 ± 7.4
1000.0	180 ± 3.3	117 ± 15.5	196 ± 6.3	139 ± 14.4	237 ± 10.6
3333.0	151 ± 5.4	115 ± 6.1	189 ± 3.2	134 ± 13.6	240 ± 2.2
10000.0	162 ± 4.8	130 ± 11.5	231 ± 5.4	187 ± 17.7	226 ± 18.6
12190.0	174 ± 1.5	132 ± 7.9	256 ± 2.6	158 ± 28.3	327 ± 4.0
Trial Summary	Negative	Negative	Equivocal	Negative	Equivocal
Positive Control ²			1294 ± 31.3	392 ± 15.0	1967 ± 16.3
Positive Control ³	1082 ± 43.2	316 ± 86.8			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	164 ± 19.1
333.0	143 ± 4.9
1000.0	147 ± 9.4
3333.0	151 ± 8.2
10000.0	178 ± 10.5
12190.0	215 ± 37.5
Trial Summary	Negative
Positive Control ²	1281 ± 87.4
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	8 ± 0.9	8 ± 0.0	4 ± 2.0	10 ± 2.0	7 ± 1.8
333.0	10 ± 1.2	5 ± 2.6		12 ± 2.6	6 ± 1.8
1000.0	7 ± 2.0	5 ± 0.9		11 ± 1.8	6 ± 1.2
1667.0			6 ± 1.5		
3333.0	10 ± 2.6	8 ± 1.2	5 ± 0.3	16 ± 0.9	6 ± 2.8
6666.0			4 ± 2.0		
10000.0	15 ± 1.9	9 ± 2.9	3 ± 2.5	33 ± 1.8	5 ± 0.9
12190.0	13 ± 2.3	9 ± 1.5	5 ± 1.0	42 ± 2.0	7 ± 1.0
Trial Summary	Negative	Negative	Negative	Positive	Negative
Positive Control ²				128 ± 13.5	48 ± 2.6
Positive Control ³	779 ± 10.1	46 ± 2.9	177 ± 16.5		

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 2.2	8 ± 1.2	6 ± 1.2	4 ± 2.2
333.0		18 ± 1.9	9 ± 2.9	
1000.0		11 ± 1.0	8 ± 0.9	
1667.0	5 ± 2.1			4 ± 1.2
3333.0	12 ± 2.7	17 ± 1.7	9 ± 2.3	7 ± 0.6
6666.0	13 ± 2.1			10 ± 1.5
10000.0	15 ± 2.0	26 ± 3.2	12 ± 4.0	12 ± 0.9
12190.0	20 ± 5.6	28 ± 3.2	7 ± 0.7	15 ± 1.2
Trial Summary	Equivocal	Positive	Negative	Positive
Positive Control ²	77 ± 3.8	108 ± 3.6	47 ± 3.8	60 ± 2.9
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	3 ± 0.3	3 ± 0.3	5 ± 0.9	5 ± 0.6	8 ± 1.8
333.0	5 ± 0.7	5 ± 0.3	5 ± 0.0	7 ± 1.2	5 ± 1.2
1000.0	5 ± 0.3	5 ± 1.3	8 ± 0.3	5 ± 1.5	7 ± 1.5
3333.0	5 ± 0.3	5 ± 0.6	5 ± 1.2	5 ± 0.9	12 ± 1.2
10000.0	4 ± 0.9	3 ± 0.3	7 ± 0.3	6 ± 0.9	3 ± 0.9
12190.0	1 ± 0.0	4 ± 1.8	5 ± 1.2	4 ± 0.7	5 ± 1.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			71 ± 3.2	154 ± 5.2	129 ± 37.4
Positive Control ⁴	319 ± 121.4	2928 ± 133.7			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.5
333.0	4 ± 1.5
1000.0	6 ± 1.2
3333.0	7 ± 2.6
10000.0	4 ± 0.7
12190.0	4 ± 0.7
Trial Summary	Negative
Positive Control ²	211 ± 14.9
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	32 ± 3.2	21 ± 7.0	34 ± 2.3	26 ± 4.6	34 ± 2.1
333.0	30 ± 1.3	18 ± 4.4	31 ± 0.9	24 ± 0.9	29 ± 0.6
1000.0	25 ± 2.1	17 ± 1.5	30 ± 4.9	32 ± 8.8	30 ± 1.0
3333.0	30 ± 1.9	16 ± 4.3	35 ± 2.4	25 ± 2.5	35 ± 1.7
10000.0	32 ± 3.2	22 ± 3.5	38 ± 1.0	23 ± 3.3	25 ± 1.5
12190.0	32 ± 4.9	15 ± 3.3	43 ± 2.7	27 ± 3.0	27 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			826 ± 14.2	1187 ± 145.4	1053 ± 19.7
Positive Control ⁵	748 ± 33.0	236 ± 6.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	25 ± 4.5
333.0	20 ± 2.0
1000.0	23 ± 2.6
3333.0	24 ± 2.7
10000.0	21 ± 1.2
12190.0	22 ± 3.6
Trial Summary	Negative
Positive Control ²	1365 ± 27.9
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 ****