

Experiment Number: 052370

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: 02:32:05

NTP Study Number:

052370

Study Result:

Positive

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Test Compound: 2-Chloroethanol (ethylene chlorohydrin)

CAS Number: 107-07-3

Date Report Requested: 09/15/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	112 ± 9.2	145 ± 4.3	123 ± 9.6	131 ± 5.9	157 ± 2.1
100.0	119 ± 8.7		130 ± 7.3	122 ± 0.3	
333.0	125 ± 11.5	144 ± 8.1	125 ± 4.4	130 ± 12.0	157 ± 12.9
1000.0	131 ± 6.7	127 ± 3.8	130 ± 15.5	134 ± 8.5	164 ± 11.3
3333.0	128 ± 10.1	138 ± 4.9	151 ± 5.2	143 ± 12.7	171 ± 5.5
6667.0		190 ± 8.7			201 ± 7.2
10000.0	165 ± 15.9	249 ± 5.5	162 ± 8.5	157 ± 7.1	196 ± 6.8
Trial Summary	Equivocal	Equivocal	Equivocal	Negative	Equivocal
Positive Control ²					
Positive Control ³			360 ± 17.3	1307 ± 34.7	1108 ± 32.0
Positive Control ⁴	1478 ± 60.8	1449 ± 16.1			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	73 ± 6.6	121 ± 3.5
100.0	100 ± 9.8	
333.0	83 ± 6.1	136 ± 3.3
1000.0	114 ± 11.7	141 ± 3.5
3333.0	130 ± 7.6	150 ± 5.4
6667.0		154 ± 6.0
10000.0	156 ± 12.0	181 ± 4.2
Trial Summary	Positive	Equivocal
Positive Control ²	2694 ± 106.7	1960 ± 62.1
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% Rat S9
Vehicle Control ¹	25 ± 2.0	23 ± 2.4	12 ± 5.5	14 ± 1.5	12 ± 0.7
100.0	23 ± 3.2		12 ± 2.0	11 ± 2.8	
333.0	24 ± 1.7	23 ± 3.2	8 ± 1.5	10 ± 0.9	11 ± 1.5
1000.0	26 ± 0.7	21 ± 5.1	19 ± 4.6	11 ± 1.0	17 ± 1.0
3333.0	21 ± 0.9	28 ± 3.5	34 ± 1.2	15 ± 2.2	28 ± 3.9
6667.0		23 ± 1.2			56 ± 8.6
10000.0	37 ± 3.8 ^s	38 ± 0.6	66 ± 2.1	31 ± 0.9	63 ± 2.2
Trial Summary	Negative	Equivocal	Positive	Equivocal	Positive
Positive Control ²					
Positive Control ³			28 ± 1.9	86 ± 7.3	68 ± 1.7
Positive Control ⁴	1370 ± 22.1	1043 ± 34.3			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	13 ± 1.0	10 ± 0.6
100.0	10 ± 2.3	
333.0	11 ± 3.0	15 ± 0.3
1000.0	17 ± 0.3	13 ± 1.5
3333.0	34 ± 4.0	27 ± 5.3
6667.0		48 ± 3.5
10000.0	82 ± 5.8	66 ± 4.2
Trial Summary	Positive	Positive
Positive Control ²	244 ± 22.8	91 ± 2.5
Positive Control ³		
Positive Control ⁴		

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Test Compound: 2-Chloroethanol (ethylene chlorohydrin)

CAS Number: 107-07-3

Date Report Requested: 09/15/2018

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 0.7	7 ± 1.0	14 ± 2.9	8 ± 0.6
100.0	9 ± 1.9	9 ± 2.3	13 ± 1.7	8 ± 1.9
333.0	7 ± 1.9	10 ± 2.3	7 ± 1.0	7 ± 0.7
1000.0	7 ± 1.2	6 ± 1.0	9 ± 1.8	9 ± 1.2
3333.0	9 ± 1.2	9 ± 1.7	11 ± 3.2	4 ± 2.0
10000.0	7 ± 0.9	6 ± 1.2	6 ± 0.3	6 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²				393 ± 58.6
Positive Control ³		46 ± 1.0	188 ± 6.4	
Positive Control ⁵	466 ± 93.9			

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Test Compound: 2-Chloroethanol (ethylene chlorohydrin)

CAS Number: 107-07-3

Date Report Requested: 09/15/2018

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	28 ± 2.3	29 ± 2.1	36 ± 6.8	28 ± 2.2
100.0	20 ± 3.2	22 ± 5.5	33 ± 1.5	23 ± 5.8
333.0	23 ± 3.9	28 ± 2.7	29 ± 1.5	27 ± 1.3
1000.0	23 ± 1.9	31 ± 1.5	37 ± 4.3	29 ± 5.0
3333.0	22 ± 1.3	31 ± 2.0	32 ± 3.4	26 ± 4.2
10000.0	24 ± 3.8	26 ± 5.0	29 ± 2.2	25 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²				2938 ± 194.6
Positive Control ³		413 ± 10.7	1149 ± 82.7	
Positive Control ⁶	1742 ± 5.5			

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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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

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

s: Slight Toxicity

**** END OF REPORT ****