

Experiment Number: 552370

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

G06: Ames Summary Data

Test Compound: **2-Chloroethanol (ethylene chlorohydrin)**

CAS Number: **107-07-3**

Date Report Requested: **09/13/2018**

Time Report Requested: **21:30:25**

NTP Study Number:

552370

Study Result:

Positive

Experiment Number: 552370

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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	124 ± 11.1	102 ± 3.5	107 ± 7.8	95 ± 2.8	112 ± 7.4
100.0	141 ± 8.8		148 ± 16.8		149 ± 4.6
333.3	125 ± 2.4	75 ± 2.5	129 ± 6.4	103 ± 11.0	146 ± 4.0
1000.0	133 ± 3.3	83 ± 5.8	150 ± 6.1	85 ± 9.2	137 ± 3.8
3333.3	149 ± 7.4	98 ± 7.6	159 ± 18.2	109 ± 3.8	140 ± 5.5
6666.7		112 ± 6.2		121 ± 8.0	
10000.0	279 ± 15.7	223 ± 9.6	173 ± 3.8	127 ± 12.0	149 ± 17.9
Trial Summary	Positive	Equivocal	Equivocal	Negative	Equivocal
Positive Control ²			1188 ± 28.8	1218 ± 8.1	2003 ± 54.1
Positive Control ³	329 ± 10.2	352 ± 16.0			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	81 ± 3.5
100.0	
333.3	86 ± 10.2
1000.0	104 ± 7.2
3333.3	116 ± 2.3
6666.7	123 ± 7.8
10000.0	140 ± 11.5
Trial Summary	Equivocal
Positive Control ²	1482 ± 54.3
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 2.4	10 ± 2.8	10 ± 2.2
100.0	15 ± 1.2	11 ± 4.2	8 ± 2.7
333.3	18 ± 4.8	11 ± 1.2	9 ± 0.6
1000.0	9 ± 2.0	11 ± 1.8	11 ± 2.4
3333.3	12 ± 3.3	13 ± 3.2	13 ± 2.4
10000.0	17 ± 1.2	16 ± 3.5	22 ± 1.2
Trial Summary	Negative	Negative	Negative
Positive Control ³	356 ± 7.6		
Positive Control ⁴		416 ± 22.6	452 ± 23.0

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Test Compound: 2-Chloroethanol (ethylene chlorohydrin)

CAS Number: 107-07-3

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 1.8	7 ± 2.5	6 ± 1.2
100.0	6 ± 1.5	5 ± 0.9	6 ± 1.5
333.3	4 ± 0.3	4 ± 0.3	6 ± 0.9
1000.0	8 ± 0.9	7 ± 0.3	6 ± 0.9
3333.3	4 ± 1.0	3 ± 0.9	8 ± 0.3
10000.0	6 ± 1.8	5 ± 1.5	6 ± 3.2
Trial Summary	Negative	Negative	Negative
Positive Control ⁴		328 ± 27.8	286 ± 58.0
Positive Control ⁵	125 ± 35.9		

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G06: Ames Summary Data

Test Compound: 2-Chloroethanol (ethylene chlorohydrin)

CAS Number: 107-07-3

Date Report Requested: 09/13/2018

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	40 ± 4.9	29 ± 1.8	43 ± 2.0
100.0	41 ± 0.9	41 ± 5.2	40 ± 2.7
333.3	26 ± 4.2	36 ± 6.0	32 ± 3.2
1000.0	32 ± 4.7	34 ± 3.3	36 ± 2.1
3333.3	30 ± 0.7	30 ± 1.5	29 ± 2.2
10000.0	38 ± 1.9	26 ± 0.0	31 ± 3.1
Trial Summary	Negative	Negative	Negative
Positive Control ²		824 ± 46.2	1859 ± 77.8
Positive Control ⁶	437 ± 14.2		

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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: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****