

Experiment Number: 365601

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

G06: Ames Summary Data

Test Compound: **Epichlorhydrin**

CAS Number: **106-89-8**

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

Time Report Requested: **21:07:50**

NTP Study Number:

365601

Study Result:

Positive

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Epichlorhydrin

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Date Report Requested: 09/13/2018

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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	99 ± 5.7	107 ± 11.3	125 ± 13.6	109 ± 7.8	123 ± 6.8
3.0		139 ± 6.9			
33.0	270 ± 32.3	212 ± 7.4	131 ± 14.0	105 ± 3.8	127 ± 11.0
100.0	509 ± 15.5	351 ± 11.4	156 ± 9.7	129 ± 10.5	154 ± 6.6
333.0	843 ± 8.2	562 ± 20.6	362 ± 3.2	267 ± 10.2	356 ± 20.2
1000.0	1362 ± 18.1	894 ± 32.1	1102 ± 17.7	784 ± 31.5	1092 ± 26.5
3333.0	1342 ± 13.1		1677 ± 45.3	1195 ± 9.0	1640 ± 18.3
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			533 ± 44.5	359 ± 4.2	1617 ± 71.3
Positive Control ³	433 ± 17.5	413 ± 2.7			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	98 ± 7.0
3.0	
33.0	118 ± 7.3
100.0	123 ± 6.4
333.0	243 ± 9.4
1000.0	731 ± 2.2
3333.0	1275 ± 25.4
Trial Summary	Positive
Positive Control ²	1072 ± 24.5
Positive Control ³	

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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	23 ± 2.8	26 ± 1.0	7 ± 0.3	10 ± 1.7	10 ± 3.3
3.0		50 ± 3.0			
33.0	136 ± 12.8	132 ± 17.1	8 ± 2.3	10 ± 2.3	14 ± 0.7
100.0	348 ± 4.9	283 ± 24.6	19 ± 0.7	15 ± 3.4	28 ± 5.8
333.0	694 ± 4.3	511 ± 27.2	95 ± 2.7	108 ± 1.8	106 ± 4.5
1000.0	974 ± 33.0	718 ± 27.1	501 ± 18.5	462 ± 10.0	547 ± 26.4
3333.0	160 ± 39.7		1074 ± 26.2	848 ± 74.9	1177 ± 5.5
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ³	488 ± 6.0	481 ± 11.8			
Positive Control ⁴			208 ± 5.8	162 ± 11.0	458 ± 12.6

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.2
3.0	
33.0	12 ± 0.3
100.0	24 ± 7.8
333.0	94 ± 9.6
1000.0	415 ± 22.5
3333.0	871 ± 38.1
Trial Summary	Positive
Positive Control ³	
Positive Control ⁴	416 ± 15.9

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Test Compound: Epichlorhydrin

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 1.2	4 ± 0.9	5 ± 1.0
33.0	4 ± 0.9	6 ± 1.7	9 ± 2.3
100.0	7 ± 0.6	8 ± 0.3	10 ± 1.7
333.0	8 ± 2.9	10 ± 1.2	6 ± 1.2
1000.0	6 ± 1.8	8 ± 0.3	12 ± 2.7
3333.0	5 ± 1.2	9 ± 0.3	13 ± 3.7
Trial Summary	Negative	Negative	Negative
Positive Control ⁴		168 ± 4.7	328 ± 6.2
Positive Control ⁵	161 ± 6.7		

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Test Compound: Epichlorhydrin

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	16 ± 1.8	32 ± 0.6	31 ± 3.6
33.0	22 ± 5.9	33 ± 1.5	33 ± 3.5
100.0	21 ± 2.3	29 ± 1.5	30 ± 1.2
333.0	16 ± 0.9	31 ± 4.7	29 ± 3.8
1000.0	25 ± 0.9	37 ± 2.3	36 ± 4.7
3333.0	1 ± 1.0 ^s	35 ± 2.8	39 ± 2.8
Trial Summary	Negative	Negative	Negative
Positive Control ²		535 ± 16.8	1438 ± 97.8
Positive Control ⁶	908 ± 46.9		

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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 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

s: Slight Toxicity

**** END OF REPORT ****