

Experiment Number: 868758

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1,2-Epoxy-3,3,3-trichloropropane

CAS Number: 3083-23-6

Date Report Requested: 09/16/2018

Time Report Requested: 16:14:05

NTP Study Number:

868758

Study Result:

Positive

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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	137 ± 5.5	127 ± 6.1	160 ± 6.0	104 ± 9.7	152 ± 3.3
3.0		167 ± 3.9			
10.0	424 ± 29.1	333 ± 18.9	191 ± 12.3	485 ± 36.1	151 ± 8.3
33.0	1335 ± 27.5	895 ± 13.3	562 ± 9.8	520 ± 11.3	284 ± 4.9
100.0	2185 ± 67.8	1635 ± 74.1	1290 ± 27.7	1082 ± 13.4	1062 ± 26.8
333.0	1487 ± 117.8	975 ± 26.5	1400 ± 56.9	1280 ± 70.3	1762 ± 174.1
1000.0	Toxic		61 ± 30.6	50 ± 24.3 ^s	95 ± 48.8
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			567 ± 27.7	608 ± 14.5	1148 ± 58.9
Positive Control ³	259 ± 14.4	384 ± 20.7			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	107 ± 12.8
3.0	
10.0	285 ± 12.8
33.0	365 ± 14.7
100.0	993 ± 55.5
333.0	1350 ± 34.9
1000.0	6 ± 6.0 ^s
Trial Summary	Positive
Positive Control ²	1410 ± 29.6
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	26 ± 2.9	27 ± 5.8	18 ± 1.0	12 ± 2.3	13 ± 0.6
3.0		26 ± 2.7			
10.0	31 ± 2.9	48 ± 4.6	17 ± 1.8	20 ± 2.7	10 ± 2.5
33.0	91 ± 18.1	114 ± 10.6	16 ± 1.9	16 ± 2.0	15 ± 0.6
100.0	239 ± 8.7	238 ± 6.1	30 ± 6.2	18 ± 5.5	25 ± 0.0
333.0	19 ± 12.3	23 ± 8.0 ^s	10 ± 2.5	14 ± 3.6	21 ± 6.7
1000.0	Toxic		0 ± 0.0 ^s	9 ± 0.0	0 ± 0.0 ^s
Trial Summary	Positive	Positive	Equivocal	Negative	Equivocal
Positive Control ³	284 ± 2.3	334 ± 31.8			
Positive Control ⁴			144 ± 9.4	188 ± 6.9	389 ± 2.5

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	4 ± 0.7
3.0	
10.0	18 ± 6.5
33.0	6 ± 1.9
100.0	10 ± 2.2
333.0	13 ± 3.6
1000.0	2 ± 2.0 ^s
Trial Summary	Equivocal
Positive Control ³	
Positive Control ⁴	346 ± 16.8

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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	5 ± 1.7	7 ± 1.2	10 ± 1.7	5 ± 0.7	7 ± 2.9
3.0		8 ± 2.0			
10.0	9 ± 1.3	6 ± 1.2	7 ± 1.5	14 ± 1.2	7 ± 1.5
33.0	8 ± 2.6	6 ± 1.2	7 ± 0.7	10 ± 4.0	11 ± 2.1
100.0	8 ± 1.3	6 ± 1.5	13 ± 2.6	13 ± 2.4	11 ± 2.7
333.0	6 ± 1.7	4 ± 1.8	10 ± 3.4	16 ± 1.9	15 ± 1.9
1000.0	Toxic		0 ± 0.0 ^s	5 ± 3.4	0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ⁴			205 ± 2.3	266 ± 39.0	537 ± 17.7
Positive Control ⁵	329 ± 28.0	149 ± 17.2			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 2.1
3.0	
10.0	12 ± 1.7
33.0	7 ± 3.1
100.0	4 ± 1.2
333.0	14 ± 0.6
1000.0	0 ± 0.0 ^s
Trial Summary	Negative
Positive Control ⁴	512 ± 13.4
Positive Control ⁵	

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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	18 ± 4.2	18 ± 0.3	28 ± 2.1	24 ± 2.3	27 ± 2.8
3.0		15 ± 0.7			
10.0	22 ± 2.2	17 ± 1.7	36 ± 2.0	39 ± 1.3	30 ± 2.8
33.0	28 ± 1.2	25 ± 3.1	30 ± 1.2	27 ± 2.4	29 ± 5.6
100.0	52 ± 4.0	44 ± 2.3	38 ± 3.8	26 ± 2.9	41 ± 0.7
333.0	0 ± 0.0 ^s	0 ± 0.0 ^s	26 ± 5.6	44 ± 2.3	51 ± 0.9
1000.0	Toxic		4 ± 2.3	Toxic	0 ± 0.0 ^s
Trial Summary	Positive	Positive	Negative	Equivocal	Equivocal
Positive Control ²			498 ± 33.0	394 ± 14.8	1093 ± 63.3
Positive Control ⁶	463 ± 33.7	725 ± 25.8			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	32 ± 3.0
3.0	
10.0	39 ± 3.7
33.0	34 ± 4.0
100.0	33 ± 4.4
333.0	41 ± 2.1
1000.0	5 ± 5.3 ^s
Trial Summary	Negative
Positive Control ²	886 ± 22.6
Positive Control ⁶	

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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 ****