

Experiment Number: 432029

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: 09/10/2018

Time Report Requested: 20:50:34

NTP Study Number:

432029

Study Result:

Positive

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Test Compound: 1,2-Epoxy-3,3,3-trichloropropane
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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 ± 5.2	144 ± 5.7	110 ± 8.5	150 ± 9.0	136 ± 5.2
1.0	158 ± 7.7	142 ± 3.5			
3.3	192 ± 11.4		108 ± 12.0	139 ± 11.2	129 ± 1.2
10.0	354 ± 18.8	220 ± 7.6	142 ± 2.1		131 ± 3.8
33.0	998 ± 42.0	547 ± 24.0	353 ± 22.9	447 ± 19.7	234 ± 7.0
67.0				800 ± 34.9	
75.0		921 ± 36.0			
100.0	2660 ± 70.0 ^s	888 ± 47.4 ^s	1057 ± 44.2	1114 ± 12.8	949 ± 26.5
333.0			1867 ± 88.0 ^s	920 ± 22.8 ^s	1823 ± 126.5 ^s
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					1163 ± 91.8
Positive Control ³			1215 ± 29.6	911 ± 23.1	
Positive Control ⁴	1182 ± 35.2	957 ± 51.4			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	128 ± 5.6
1.0	
3.3	163 ± 6.2
10.0	
33.0	333 ± 20.9
67.0	863 ± 16.0
75.0	
100.0	1625 ± 42.7
333.0	2192 ± 70.4
Trial Summary	Positive
Positive Control ²	982 ± 45.7
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% Hamster S9
Vehicle Control ¹	30 ± 3.6	21 ± 6.2	13 ± 3.2	13 ± 3.1	9 ± 2.9
1.0	25 ± 4.1	16 ± 3.3			
3.3	24 ± 5.2		7 ± 1.3		12 ± 1.8
10.0	30 ± 2.9	23 ± 1.5	13 ± 1.5	11 ± 0.3	8 ± 1.7
33.0	35 ± 2.7	43 ± 5.2	12 ± 3.5		12 ± 0.9
67.0				17 ± 2.6	
75.0		85 ± 4.0			
100.0	121 ± 16.4 ^s	122 ± 7.9	22 ± 3.3	19 ± 1.3	23 ± 2.3
200.0				20 ± 2.0	
333.0			13 ± 0.9 ^s	13 ± 1.8 ^s	13 ± 1.2 ^s
Trial Summary	Equivocal	Positive	Negative	Negative	Equivocal
Positive Control ²					133 ± 4.7
Positive Control ³			96 ± 5.2	83 ± 3.3	
Positive Control ⁴	959 ± 18.2	573 ± 68.6			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 2.0
1.0	
3.3	
10.0	10 ± 2.9
33.0	
67.0	12 ± 0.9
75.0	
100.0	19 ± 3.8
200.0	18 ± 2.9
333.0	12 ± 1.9 ^s
Trial Summary	Negative
Positive Control ²	85 ± 6.7
Positive Control ³	
Positive Control ⁴	

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	7 ± 2.0	7 ± 1.0	5 ± 1.5
1.0	4 ± 0.6		
3.3	7 ± 1.8	10 ± 4.7	6 ± 0.6
10.0	5 ± 1.2	7 ± 1.0	5 ± 0.6
33.0	3 ± 1.2	8 ± 2.0	7 ± 0.9
100.0	8 ± 0.7 ^s	6 ± 0.6	7 ± 1.2
333.0		8 ± 1.8 ^s	10 ± 1.7 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			98 ± 3.0
Positive Control ³		79 ± 5.8	
Positive Control ⁵	105 ± 3.7		

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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	15 ± 1.2	19 ± 2.1	23 ± 2.6	26 ± 2.9	30 ± 2.9
1.0	11 ± 1.2	14 ± 1.5			
3.3	17 ± 1.2		23 ± 1.5		29 ± 2.6
10.0	17 ± 1.2	21 ± 2.2	27 ± 1.7	22 ± 3.3	30 ± 1.3
33.0	19 ± 1.5	24 ± 1.9	28 ± 3.0		25 ± 4.1
67.0				36 ± 0.6	
75.0		20 ± 2.4 ^s			
100.0	28 ± 0.7 ^s	24 ± 2.4 ^s	32 ± 0.9	40 ± 2.3	28 ± 0.3
200.0				34 ± 2.9	
333.0			30 ± 2.6 ^s	21 ± 0.7 ^s	40 ± 2.0 ^s
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²					1055 ± 55.2
Positive Control ³			825 ± 30.1	418 ± 21.8	
Positive Control ⁶	1338 ± 49.0	1277 ± 59.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	33 ± 2.0
1.0	
3.3	
10.0	25 ± 3.5
33.0	
67.0	25 ± 2.8
75.0	
100.0	30 ± 2.0
200.0	35 ± 1.0
333.0	30 ± 0.3 ^s
Trial Summary	Negative
Positive Control ²	553 ± 39.4
Positive Control ³	
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: 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 ****