

Experiment Number: 611487

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

G06: Ames Summary Data

Test Compound: 4,4,4-Trichloro-1,2-epoxybutane

CAS Number: 3083-25-8

Date Report Requested: 09/15/2018

Time Report Requested: 01:38:58

NTP Study Number:

611487

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	104 ± 3.9	133 ± 4.7	108 ± 8.4	160 ± 3.3	128 ± 4.7
10.0	101 ± 5.6	131 ± 9.3		134 ± 14.8	
33.0	107 ± 3.8	139 ± 4.9	122 ± 3.2	146 ± 4.9	101 ± 1.5
100.0	142 ± 3.0	156 ± 5.1	114 ± 6.5	147 ± 7.5	121 ± 12.9
333.0	238 ± 12.2	234 ± 9.4	140 ± 2.0	145 ± 3.2	134 ± 3.7
666.0	225 ± 5.2 ^s	304 ± 17.9		191 ± 2.5 ^s	
1000.0			41 ± 21.1 ^s		59 ± 10.6 ^s
1666.0			Toxic		14 ± 5.5 ^s
Trial Summary	Positive	Positive	Negative	Negative	Negative
Positive Control ²			1260 ± 14.2	432 ± 7.5	1649 ± 10.3
Positive Control ³	558 ± 19.2	365 ± 14.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	121 ± 7.0
10.0	137 ± 5.9
33.0	126 ± 9.1
100.0	123 ± 12.4
333.0	133 ± 9.1
666.0	137 ± 2.8
1000.0	
1666.0	
Trial Summary	Negative
Positive Control ²	1265 ± 30.8
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	23 ± 2.9	7 ± 0.6	10 ± 1.8
10.0	20 ± 1.0		
33.0	22 ± 2.7	9 ± 2.9	7 ± 1.2
100.0	16 ± 3.8	8 ± 2.0	7 ± 0.9
333.0	32 ± 3.6	7 ± 2.1	6 ± 0.6
666.0	22 ± 4.4 ^s		
1000.0		4 ± 1.7 ^s	5 ± 1.2 ^s
1666.0		3 ± 1.7 ^s	4 ± 2.0 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ³	485 ± 17.1		
Positive Control ⁴		281 ± 3.8	407 ± 16.7

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Strain: TA1537

Dose (ug/Plate)	Without S9
Vehicle Control ¹	9 ± 1.2
10.0	8 ± 0.7
33.0	8 ± 2.3
100.0	6 ± 1.5
333.0	7 ± 0.7
666.0	6 ± 1.2 ^s
Trial Summary	Negative
Positive Control ⁵	662 ± 19.4

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	124 ± 12.5	131 ± 3.5	180 ± 6.8	134 ± 5.9	158 ± 2.7
10.0	156 ± 9.5	138 ± 7.6			158 ± 3.2
33.0	144 ± 15.1	139 ± 10.8	163 ± 10.2	141 ± 12.8	161 ± 1.5
100.0	166 ± 9.8	154 ± 8.2	171 ± 2.3	137 ± 6.4	182 ± 5.6
333.0	225 ± 6.7	229 ± 5.0	190 ± 9.6	151 ± 10.0	185 ± 6.7
666.0	209 ± 29.5 ^s	270 ± 24.8			173 ± 6.6
1000.0			136 ± 16.1 ^s	97 ± 4.5 ^s	
1666.0			51 ± 21.7 ^s	3 ± 1.7 ^s	
Trial Summary	Weakly Positive	Positive	Negative	Negative	Negative
Positive Control ⁴			1070 ± 28.0	1346 ± 93.5	1421 ± 19.3
Positive Control ⁵	1931 ± 109.1	2102 ± 134.1			

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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	17 ± 1.5	24 ± 1.7	37 ± 2.9	25 ± 3.1
10.0	18 ± 3.6		30 ± 5.5	
33.0	19 ± 3.8	26 ± 2.5	32 ± 2.3	26 ± 0.7
100.0	15 ± 3.5	18 ± 0.6	33 ± 2.6	29 ± 3.8
333.0	16 ± 1.9	17 ± 4.1	33 ± 3.8	27 ± 4.4
666.0	13 ± 5.6 ^s		32 ± 2.4	
1000.0		4 ± 4.0 ^s		15 ± 5.2 ^s
1666.0		0 ± 0.0 ^s		11 ± 2.3 ^s
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²		843 ± 21.7	183 ± 11.5	1029 ± 20.0
Positive Control ⁶	1278 ± 52.0			

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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 ****