

Experiment Number: 834002

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,3-Epoxybutane

CAS Number: 3266-23-7

Date Report Requested: 09/15/2018

Time Report Requested: 19:46:21

NTP Study Number:

834002

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	90 ± 3.2	115 ± 5.2	155 ± 8.1	103 ± 9.3	176 ± 4.0
100.0	90 ± 3.3	112 ± 4.9	171 ± 7.2	104 ± 6.4	167 ± 9.4
333.0	86 ± 2.3	104 ± 3.0	150 ± 5.5	100 ± 3.5	167 ± 5.0
1000.0	106 ± 4.7	102 ± 10.5	169 ± 5.5	94 ± 1.5	181 ± 8.1
3333.0	111 ± 5.5	116 ± 5.2	179 ± 5.8	117 ± 4.7	187 ± 10.3
10000.0	119 ± 6.9	163 ± 6.0	190 ± 3.0	172 ± 9.6	207 ± 7.0
Trial Summary	Negative	Equivocal	Negative	Equivocal	Negative
Positive Control ²	402 ± 19.7				
Positive Control ³				785 ± 51.0	574 ± 38.4
Positive Control ⁴		636 ± 17.7	846 ± 24.5		

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	14 ± 0.6	17 ± 3.7	10 ± 0.6	12 ± 3.5	12 ± 1.5
100.0	12 ± 1.5	17 ± 1.9	20 ± 1.2	13 ± 1.5	17 ± 0.6
333.0	11 ± 1.5	21 ± 4.1	14 ± 1.2	15 ± 0.7	19 ± 2.0
1000.0	15 ± 1.0	19 ± 2.0	18 ± 0.3	18 ± 1.7	20 ± 3.3
3333.0	18 ± 3.2	21 ± 3.2	24 ± 3.3	22 ± 0.7	26 ± 2.9
10000.0	31 ± 3.3	31 ± 1.2	47 ± 5.6	51 ± 0.6	49 ± 2.0
Trial Summary	Equivocal	Equivocal	Positive	Positive	Positive
Positive Control ²	231 ± 7.4	154 ± 12.4			
Positive Control ³					83 ± 8.7
Positive Control ⁴			158 ± 5.5	111 ± 2.4	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 0.7
100.0	11 ± 0.3
333.0	11 ± 2.3
1000.0	16 ± 2.7
3333.0	26 ± 1.0
10000.0	43 ± 4.0
Trial Summary	Positive
Positive Control ²	
Positive Control ³	77 ± 2.7
Positive Control ⁴	

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	5 ± 1.2	3 ± 0.0	7 ± 0.6
100.0	7 ± 0.7	8 ± 1.7	6 ± 0.0
333.0	3 ± 0.7	10 ± 2.6	7 ± 0.3
1000.0	6 ± 1.0	6 ± 1.2	5 ± 1.2
3333.0	3 ± 1.5	7 ± 1.9	7 ± 1.5
10000.0	7 ± 0.9	5 ± 0.7	8 ± 0.7
Trial Summary	Negative	Negative	Negative
Positive Control ⁵		86 ± 4.3	187 ± 10.5
Positive Control ⁶	36 ± 6.2		

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Strain: TA97

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	96 ± 2.4	188 ± 11.4	200 ± 7.4
100.0	92 ± 7.2	244 ± 10.5	203 ± 7.7
333.0	92 ± 0.9	227 ± 11.3	205 ± 17.6
1000.0	95 ± 6.7	197 ± 12.8	189 ± 9.6
3333.0	108 ± 4.3	206 ± 17.4	225 ± 8.3
10000.0	112 ± 3.3	218 ± 13.0	227 ± 4.7
Trial Summary	Negative	Negative	Negative
Positive Control ⁵		539 ± 10.3	1081 ± 38.0
Positive Control ⁷	239 ± 15.9		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	24 ± 6.1	23 ± 2.6	22 ± 2.6
100.0	22 ± 1.3	32 ± 4.0	19 ± 2.0
333.0	16 ± 0.3	23 ± 3.8	22 ± 4.3
1000.0	16 ± 3.7	24 ± 1.5	26 ± 1.9
3333.0	19 ± 2.2	36 ± 1.3	27 ± 6.2
10000.0	16 ± 0.3	30 ± 2.3	33 ± 0.5
Trial Summary	Negative	Negative	Negative
Positive Control ⁸			103 ± 11.8
Positive Control ³		188 ± 6.2	
Positive Control ⁹	226 ± 11.2		

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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: 0.5 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate 2-Aminoanthracene

6: 4.0 ug/Plate 9-Aminoacridine

7: 8.0 ug/Plate 9-Aminoacridine

8: 0.4 ug/Plate 2-Aminoanthracene

9: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **