

Experiment Number: 518980

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1,2-Epoxyhexadecane

CAS Number: 7320-37-8

Date Report Requested: 09/12/2018

Time Report Requested: 17:24:59

NTP Study Number:

518980

Study Result:

Negative

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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	63 ± 5.4	89 ± 2.5	95 ± 5.4	143 ± 3.2	88 ± 3.7
10.0		83 ± 7.9			
33.0		95 ± 0.9			
100.0	60 ± 2.1	90 ± 5.2	88 ± 2.7	150 ± 0.3	96 ± 11.7
333.0	55 ± 6.2	93 ± 1.7	82 ± 1.5	147 ± 26.8	80 ± 9.7
1000.0	39 ± 1.7	78 ± 2.0	78 ± 3.7	149 ± 5.3	86 ± 6.8
3333.0	0 ± 0.0		79 ± 7.5	144 ± 3.5	104 ± 4.4
10000.0	0 ± 0.0		78 ± 10.5	149 ± 1.9	77 ± 5.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1536 ± 253.6	1371 ± 206.2	1506 ± 91.2
Positive Control ³	593 ± 63.9	929 ± 81.5			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	128 ± 5.2
10.0	
33.0	
100.0	120 ± 7.8
333.0	133 ± 13.5
1000.0	124 ± 6.9
3333.0	126 ± 5.5
10000.0	139 ± 8.1
Trial Summary	Negative
Positive Control ²	1924 ± 79.9
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	5 ± 1.5	19 ± 0.6	8 ± 0.7	16 ± 0.9	11 ± 2.6
100.0	4 ± 0.6	18 ± 2.7	7 ± 1.9	20 ± 2.1	12 ± 1.9
333.0	4 ± 0.9	19 ± 2.9	6 ± 1.9	16 ± 3.1	8 ± 2.5
1000.0	6 ± 0.7	17 ± 2.3	7 ± 1.5	16 ± 0.3	7 ± 1.2
3333.0	6 ± 0.3	20 ± 2.3	6 ± 1.8	16 ± 5.0	5 ± 0.6
10000.0	1 ± 0.3	14 ± 2.7	5 ± 1.7	15 ± 0.9	6 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			107 ± 11.7	120 ± 7.4	113 ± 11.3
Positive Control ³	946 ± 62.3	548 ± 109.5			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	16 ± 3.5
100.0	21 ± 1.5
333.0	21 ± 2.6
1000.0	22 ± 2.4
3333.0	17 ± 4.2
10000.0	16 ± 3.7
Trial Summary	Negative
Positive Control ²	137 ± 1.5
Positive Control ³	

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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	2 ± 0.9	15 ± 5.0	7 ± 0.9	22 ± 3.5	6 ± 1.9
1.0		12 ± 1.5			
3.3		15 ± 0.3			
10.0		14 ± 0.6			
33.0		11 ± 0.9		16 ± 1.8	
100.0	2 ± 1.2	11 ± 2.5	5 ± 0.6	16 ± 3.0	3 ± 1.3
333.0	0 ± 0.3		3 ± 0.6	12 ± 1.5	5 ± 1.2
1000.0	0 ± 0.0		3 ± 1.5	22 ± 1.9	2 ± 1.2
3333.0	0 ± 0.0		0 ± 0.3	12 ± 1.5	1 ± 0.7
10000.0	0 ± 0.0		0 ± 0.0		0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			58 ± 3.0	179 ± 35.5	74 ± 3.5
Positive Control ⁴	432 ± 12.9	266 ± 44.8			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	25 ± 1.3
1.0	
3.3	
10.0	
33.0	22 ± 3.1
100.0	31 ± 1.2
333.0	24 ± 4.4
1000.0	18 ± 4.0
3333.0	20 ± 5.8
10000.0	
Trial Summary	Negative
Positive Control ²	98 ± 11.3
Positive Control ⁴	

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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	10 ± 1.9	30 ± 3.8	21 ± 2.4	35 ± 1.9	20 ± 0.9
100.0	10 ± 1.5	24 ± 3.2	24 ± 1.3	28 ± 0.9	19 ± 2.6
333.0	6 ± 0.6	27 ± 1.7	20 ± 2.3	24 ± 4.4	27 ± 1.7
1000.0	8 ± 1.7	20 ± 3.3	24 ± 3.2	26 ± 3.4	24 ± 3.5
3333.0	3 ± 1.2	23 ± 2.2	19 ± 0.0	28 ± 2.3	21 ± 2.3
10000.0	4 ± 1.3	24 ± 2.9	15 ± 2.7	22 ± 4.3	20 ± 4.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			576 ± 58.4	1162 ± 137.1	1044 ± 122.1
Positive Control ⁵	118 ± 5.9	502 ± 117.9			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	40 ± 2.0
100.0	41 ± 2.1
333.0	38 ± 0.6
1000.0	45 ± 3.3
3333.0	37 ± 2.7
10000.0	38 ± 3.6
Trial Summary	Negative
Positive Control ²	2024 ± 223.0
Positive Control ⁵	

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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: 3.3 ug/Plate Sodium Azide
- 4: 33.0 ug/Plate 9-Aminoacridine
- 5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****