

Experiment Number: 690624

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1,2-Epoxydecane

CAS Number: 2404-44-6

Date Report Requested: 09/13/2018

Time Report Requested: 02:31:37

NTP Study Number:

690624

Study Result:

Negative

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Test Compound: 1,2-Epoxydecane
CAS Number: 2404-44-6

Date Report Requested: 09/13/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	111 ± 2.0	76 ± 5.7	80 ± 3.2	135 ± 9.0	74 ± 2.5
0.3	108 ± 6.8	86 ± 5.6			
1.0	103 ± 2.6	68 ± 7.4			
3.3	117 ± 6.9	73 ± 1.8	90 ± 3.0	129 ± 1.8	78 ± 4.0
10.0	105 ± 7.8 ^s	82 ± 5.2	89 ± 0.3	132 ± 4.9	67 ± 1.2
20.0	96 ± 8.4 ^s	78 ± 8.5 ^s			
33.0			81 ± 4.8	135 ± 4.2	78 ± 2.5
100.0			76 ± 4.7 ^s	135 ± 5.9	71 ± 2.5 ^s
200.0			56 ± 4.0 ^s	109 ± 18.9 ^s	75 ± 3.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					353 ± 32.7
Positive Control ³	373 ± 10.3	245 ± 12.6			
Positive Control ⁴			362 ± 32.5		
Positive Control ⁵					
Positive Control ⁶				374 ± 12.5	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	154 ± 8.8
0.3	
1.0	
3.3	154 ± 6.7
10.0	164 ± 12.8
20.0	
33.0	153 ± 4.0
100.0	154 ± 5.2
200.0	149 ± 9.9 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	324 ± 5.1
Positive Control ⁶	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	30 ± 3.5	17 ± 2.7	7 ± 1.5	30 ± 3.0	7 ± 0.6
0.3	31 ± 1.9	12 ± 1.2			
1.0	34 ± 5.0	16 ± 3.3			
3.3	30 ± 2.4	16 ± 2.6	9 ± 1.8	28 ± 4.0	8 ± 0.9
10.0	20 ± 2.1 ^s	11 ± 1.5 ^s	6 ± 0.9	28 ± 3.3	4 ± 1.0
20.0	10 ± 1.0 ^s	11 ± 2.3 ^s			
33.0			12 ± 0.3	25 ± 1.2	7 ± 0.6
100.0			6 ± 0.6 ^s	28 ± 3.0	5 ± 0.0 ^s
200.0			5 ± 1.2 ^s	12 ± 1.8 ^s	5 ± 0.6 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					45 ± 2.1
Positive Control ³	156 ± 5.8	151 ± 2.9			
Positive Control ⁵					
Positive Control ⁶			87 ± 5.4	135 ± 2.3	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	29 ± 1.2
0.3	
1.0	
3.3	21 ± 5.3
10.0	27 ± 2.1
20.0	
33.0	23 ± 4.1
100.0	27 ± 2.0
200.0	17 ± 0.9 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	96 ± 4.4
Positive Control ⁶	

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	5 ± 0.3	4 ± 0.9	8 ± 0.7	11 ± 2.3	5 ± 0.9
0.3	5 ± 0.3	5 ± 1.8			
1.0	8 ± 1.3	6 ± 0.7			
3.3	7 ± 0.7	4 ± 0.6	6 ± 2.3	10 ± 2.3	6 ± 0.3
10.0	6 ± 0.7 ^s	5 ± 0.6 ^s	7 ± 1.2	11 ± 0.6	6 ± 1.5
20.0	4 ± 1.2 ^s	4 ± 2.3 ^s			
33.0			3 ± 0.3	12 ± 1.0	5 ± 0.7
100.0			5 ± 2.3 ^s	8 ± 1.9	6 ± 1.5 ^s
200.0			2 ± 1.0 ^s	7 ± 0.0 ^s	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					71 ± 7.0
Positive Control ⁶			92 ± 7.3		
Positive Control ⁷				99 ± 14.4	
Positive Control ⁸	892 ± 55.5	239 ± 122.8			

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Strain: TA1537

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 3.5
0.3	
1.0	
3.3	12 ± 2.1
10.0	9 ± 2.0
20.0	
33.0	10 ± 3.4
100.0	9 ± 1.2
200.0	13 ± 2.0 ^s
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	39 ± 8.2
Positive Control ⁸	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	230 ± 11.6	73 ± 5.7	80 ± 11.6	196 ± 27.0	97 ± 7.3
0.3	155 ± 13.3	68 ± 4.6			
1.0	179 ± 11.0	72 ± 6.4			
3.3	156 ± 17.0	72 ± 1.0	81 ± 7.0	181 ± 18.4	114 ± 9.0
10.0	222 ± 17.3 ^s	62 ± 5.8 ^s	98 ± 19.7	171 ± 21.0	88 ± 2.9
20.0	86 ± 8.2 ^s	64 ± 4.8 ^s			
33.0			84 ± 1.8	161 ± 17.3	117 ± 9.0
100.0			69 ± 5.8 ^s	184 ± 16.4	80 ± 5.8 ^s
200.0			69 ± 3.0 ^s	136 ± 11.5 ^s	65 ± 6.6 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					602 ± 48.0
Positive Control ⁶			589 ± 59.7		
Positive Control ⁷				419 ± 13.6	
Positive Control ⁸	456 ± 27.7				
Positive Control ⁹		956 ± 180.5			

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	31 ± 2.5	14 ± 3.0	27 ± 2.7	47 ± 2.1	29 ± 4.1
0.3	36 ± 1.5	9 ± 2.8			
1.0	30 ± 2.3	10 ± 0.3			
3.3	29 ± 2.1	11 ± 1.9	26 ± 2.9	48 ± 1.7	23 ± 0.6
10.0	33 ± 1.8 ^s	10 ± 0.3	26 ± 2.3	47 ± 4.6	24 ± 0.6
20.0	16 ± 3.8 ^s	15 ± 3.7 ^s			
33.0			20 ± 4.7	48 ± 6.2	25 ± 2.2
100.0			16 ± 2.3 ^s	58 ± 6.1	26 ± 5.2 ^s
200.0			13 ± 0.9 ^s	31 ± 1.2	19 ± 5.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁰					158 ± 6.8
Positive Control ²			154 ± 4.7		
Positive Control ⁵				140 ± 15.0	
Positive Control ¹¹	185 ± 13.6	108 ± 19.0			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	50 ± 4.2
0.3	
1.0	
3.3	46 ± 2.0
10.0	47 ± 3.8
20.0	
33.0	44 ± 2.3
100.0	36 ± 2.8
200.0	38 ± 2.2 ^s
Trial Summary	Negative
Positive Control ¹⁰	
Positive Control ²	117 ± 4.4
Positive Control ⁵	
Positive Control ¹¹	

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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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 2-Aminoanthracene

8: 4.0 ug/Plate 9-Aminoacridine

9: 8.0 ug/Plate 9-Aminoacridine

10: 0.2 ug/Plate 2-Aminoanthracene

11: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****