

Experiment Number: 298766

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Dicyclopentadiene

CAS Number: 77-73-6

Date Report Requested: 09/11/2018

Time Report Requested: 21:58:47

NTP Study Number:

298766

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	155 ± 1.3	98 ± 6.7	165 ± 5.2	105 ± 4.0	154 ± 9.6
3.0	139 ± 8.4	102 ± 13.0	159 ± 12.3	113 ± 11.6	
10.0	147 ± 5.7	91 ± 6.4	150 ± 13.9	107 ± 4.7	164 ± 8.0
33.0	137 ± 14.5	89 ± 4.4	135 ± 6.6	102 ± 6.9	133 ± 7.1
100.0	121 ± 11.4	87 ± 7.8	154 ± 8.1	103 ± 4.7	145 ± 5.3
333.0	0 ± 0.0 ^s	Toxic	145 ± 8.5	102 ± 4.2	139 ± 5.1
1000.0					34 ± 34.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1151 ± 50.8	392 ± 5.5	2803 ± 38.8
Positive Control ³	579 ± 5.5	336 ± 7.9			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	113 ± 5.9
3.0	132 ± 7.5
10.0	115 ± 12.4
33.0	126 ± 8.1
100.0	123 ± 10.7
333.0	106 ± 16.8
1000.0	
Trial Summary	Negative
Positive Control ²	991 ± 7.8
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	58 ± 3.5	21 ± 3.2	47 ± 5.1	28 ± 0.7	47 ± 1.7
3.0	51 ± 4.3	8 ± 3.4	53 ± 6.7	26 ± 3.8	
10.0	46 ± 1.7	9 ± 1.5	51 ± 1.8	22 ± 2.2	35 ± 8.0
33.0	52 ± 4.6	9 ± 2.7	50 ± 5.9	21 ± 1.9	46 ± 7.0
100.0	37 ± 2.0	6 ± 4.2	44 ± 4.5	17 ± 2.1	44 ± 4.8
333.0	0 ± 0.0 ^s	Toxic	48 ± 7.0	7 ± 6.7 ^s	34 ± 8.0
1000.0					17 ± 17.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	567 ± 14.4	334 ± 14.3			
Positive Control ⁴			313 ± 9.3	232 ± 8.0	707 ± 29.1

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	28 ± 1.5
3.0	13 ± 2.9
10.0	17 ± 2.3
33.0	14 ± 3.5
100.0	14 ± 2.0
333.0	10 ± 4.4
1000.0	
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	337 ± 24.8

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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	6 ± 1.5	7 ± 1.3	12 ± 2.6	11 ± 2.5	9 ± 1.8
3.0	11 ± 1.9	4 ± 0.6	15 ± 3.4	5 ± 1.3	
10.0	8 ± 0.9	7 ± 0.9	12 ± 3.6	11 ± 2.2	9 ± 1.5
33.0	8 ± 2.3	6 ± 1.2	10 ± 1.5	7 ± 1.5	7 ± 2.3
100.0	8 ± 3.0	4 ± 0.6	9 ± 2.1	7 ± 3.0	9 ± 1.7
333.0	0 ± 0.0 ^s	Toxic	10 ± 1.9	5 ± 4.7 ^s	6 ± 1.0
1000.0					6 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			177 ± 17.8	121 ± 12.5	413 ± 2.5
Positive Control ⁵	361 ± 12.3	177 ± 7.0			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.5
3.0	4 ± 0.9
10.0	4 ± 0.3
33.0	7 ± 0.6
100.0	6 ± 1.5
333.0	6 ± 0.7
1000.0	
Trial Summary	Negative
Positive Control ⁴	248 ± 2.3
Positive Control ⁵	

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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	27 ± 0.6	15 ± 0.7	38 ± 3.2	23 ± 2.3	56 ± 2.3
3.0	32 ± 8.7	14 ± 3.2	29 ± 1.3	22 ± 2.3	
10.0	30 ± 5.5	10 ± 1.5	32 ± 6.9	21 ± 3.0	41 ± 1.9
33.0	27 ± 7.0	11 ± 1.8	33 ± 3.2	19 ± 1.0	39 ± 1.5
100.0	24 ± 2.5	3 ± 1.5	33 ± 3.5	25 ± 0.9	44 ± 1.9
333.0	0 ± 0.0 ^s	Toxic	24 ± 2.0 ^s	0 ± 0.0 ^s	34 ± 4.0
1000.0					35 ± 7.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			236 ± 16.8	458 ± 34.9	2400 ± 83.0
Positive Control ⁶	828 ± 30.1	693 ± 16.6			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	31 ± 3.4
3.0	35 ± 5.5
10.0	29 ± 4.7
33.0	34 ± 4.7
100.0	26 ± 0.7
333.0	27 ± 3.5
1000.0	
Trial Summary	Negative
Positive Control ²	858 ± 48.1
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: 95% Ethanol

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 ****