

Experiment Number: **648372**

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

G06: Ames Summary Data

Test Compound: **Di(2-ethylhexyl)adipate**

CAS Number: **103-23-1**

Date Report Requested: **09/11/2018**

Time Report Requested: **05:16:58**

NTP Study Number:

648372

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	81 ± 3.7	115 ± 5.5	76 ± 4.5	140 ± 4.1	88 ± 5.5
100.0	86 ± 7.4	110 ± 5.7	92 ± 1.2	136 ± 3.3	76 ± 10.9
333.0	69 ± 3.9	117 ± 10.1	73 ± 5.8	132 ± 7.5	98 ± 12.5
1000.0	88 ± 4.0	119 ± 6.4	76 ± 6.7	128 ± 5.9	109 ± 5.5
3333.0	86 ± 3.5	122 ± 10.1	74 ± 5.5	123 ± 8.9	101 ± 4.1
10000.0	83 ± 5.5 ^s	109 ± 13.0	68 ± 5.8	129 ± 6.7	86 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1131 ± 57.2
Positive Control ³			614 ± 70.8	1045 ± 21.6	
Positive Control ⁴	2415 ± 78.3	2060 ± 34.4			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	82 ± 11.5
100.0	113 ± 5.8
333.0	116 ± 5.5
1000.0	107 ± 5.3
3333.0	114 ± 10.8
10000.0	108 ± 15.1
Trial Summary	Negative
Positive Control ²	1093 ± 6.8
Positive Control ³	
Positive Control ⁴	

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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	20 ± 1.2	19 ± 1.8	17 ± 1.9	16 ± 2.6	13 ± 1.5
100.0	23 ± 3.5	23 ± 2.5	22 ± 1.8	17 ± 0.7	16 ± 1.5
333.0	24 ± 1.9	21 ± 3.2	17 ± 2.7	21 ± 0.3	19 ± 2.3
1000.0	24 ± 3.4	20 ± 1.7	14 ± 3.0	20 ± 1.9	16 ± 1.5
3333.0	17 ± 0.9	19 ± 3.2	20 ± 2.3	17 ± 0.3	19 ± 1.2
10000.0	16 ± 2.7	17 ± 3.8	14 ± 1.5	19 ± 1.3	12 ± 1.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					66 ± 7.2
Positive Control ³			47 ± 5.0	64 ± 4.5	
Positive Control ⁴	1964 ± 65.8	1331 ± 24.8			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	14 ± 3.5
100.0	14 ± 0.9
333.0	11 ± 2.0
1000.0	19 ± 2.4
3333.0	15 ± 3.7
10000.0	14 ± 2.2
Trial Summary	Negative
Positive Control ²	108 ± 8.7
Positive Control ³	
Positive Control ⁴	

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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 ± 1.2	6 ± 2.2	8 ± 2.8	8 ± 0.9	6 ± 1.2
100.0	9 ± 2.3	8 ± 0.7	6 ± 2.3	9 ± 2.3	8 ± 1.5
333.0	5 ± 1.0	7 ± 0.6	7 ± 0.6	5 ± 1.0	6 ± 1.2
1000.0	6 ± 1.2	8 ± 3.1	3 ± 0.6	7 ± 1.2	7 ± 2.5
3333.0	7 ± 0.6	8 ± 1.5	7 ± 0.6	6 ± 0.3	4 ± 2.3
10000.0	5 ± 1.5	6 ± 1.5	8 ± 1.2	6 ± 2.4	4 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					116 ± 16.0
Positive Control ³			37 ± 2.0	122 ± 1.5	
Positive Control ⁵	319 ± 8.7	422 ± 92.9			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	5 ± 2.4
100.0	8 ± 1.2
333.0	5 ± 0.3
1000.0	9 ± 1.7
3333.0	6 ± 1.5
10000.0	7 ± 1.8
Trial Summary	Negative
Positive Control ²	111 ± 7.0
Positive Control 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	23 ± 2.7	28 ± 1.7	27 ± 2.0	30 ± 3.8	27 ± 4.1
100.0	26 ± 0.7	26 ± 1.0	26 ± 4.5	30 ± 3.1	31 ± 3.2
333.0	24 ± 3.8	21 ± 2.1	27 ± 1.5	28 ± 4.0	34 ± 0.7
1000.0	22 ± 3.2	27 ± 1.2	25 ± 0.9	34 ± 2.3	27 ± 2.0
3333.0	25 ± 3.7	26 ± 2.2	24 ± 2.3	28 ± 2.0	27 ± 4.5
10000.0	19 ± 1.7	24 ± 3.8	30 ± 0.3	25 ± 2.7	30 ± 3.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					982 ± 26.6
Positive Control ³			403 ± 19.6	847 ± 33.9	
Positive Control ⁶	1815 ± 61.1	1957 ± 85.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	23 ± 1.0
100.0	24 ± 1.5
333.0	30 ± 0.6
1000.0	30 ± 4.6
3333.0	29 ± 1.5
10000.0	31 ± 1.5
Trial Summary	Negative
Positive Control ²	1008 ± 13.3
Positive Control ³	
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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****