

Experiment Number: 675507

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Diisobutyl Phthalate

CAS Number: 84-69-5

Date Report Requested: 09/12/2018

Time Report Requested: 06:29:58

NTP Study Number:

675507

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	140 ± 7.5	135 ± 5.6	116 ± 5.2	178 ± 17.4	132 ± 2.5
100.0	122 ± 3.7	143 ± 0.9	126 ± 11.6	161 ± 13.3	109 ± 8.5
333.0	110 ± 5.8	148 ± 2.3	108 ± 6.0	174 ± 7.5	118 ± 6.1
1000.0	127 ± 11.5	144 ± 4.6	109 ± 4.3	162 ± 4.0	116 ± 5.9
3333.0	138 ± 4.7	151 ± 11.6	108 ± 13.4	179 ± 5.6	119 ± 7.8
10000.0	124 ± 3.0	140 ± 1.2	85 ± 6.3	146 ± 7.0	124 ± 3.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1130 ± 64.6
Positive Control ³			1259 ± 34.4	1183 ± 29.6	
Positive Control ⁴	1271 ± 8.7	1319 ± 83.5			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	182 ± 9.6
100.0	188 ± 11.8
333.0	179 ± 3.3
1000.0	189 ± 5.2
3333.0	186 ± 6.9
10000.0	170 ± 3.2
Trial Summary	Negative
Positive Control ²	1092 ± 63.6
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	25 ± 4.7	19 ± 3.2 ^S	28 ± 2.4	16 ± 3.8	8 ± 1.9
100.0	29 ± 4.5	24 ± 1.2 ^S	23 ± 1.2	11 ± 2.6	13 ± 0.3
333.0	24 ± 1.2	22 ± 5.4 ^S	28 ± 2.7	9 ± 2.3	13 ± 2.1
1000.0	28 ± 0.3	20 ± 1.5 ^S	27 ± 2.4	12 ± 3.0	15 ± 1.2
3333.0	23 ± 2.5	19 ± 3.5 ^S	27 ± 4.3	11 ± 2.3	13 ± 2.0
10000.0	20 ± 0.3	17 ± 1.0 ^S	27 ± 1.9	10 ± 2.3	10 ± 2.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				61 ± 4.9	68 ± 2.7
Positive Control ⁴	1032 ± 13.3	953 ± 31.7	855 ± 17.0		

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	12 ± 2.4	12 ± 3.3
100.0	12 ± 2.3	11 ± 1.2
333.0	12 ± 2.0	14 ± 1.8
1000.0	8 ± 3.4	13 ± 0.3
3333.0	9 ± 1.5	13 ± 2.1
10000.0	6 ± 0.3	12 ± 1.0
Trial Summary	Negative	Negative
Positive Control ²	76 ± 6.4	59 ± 11.9
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	8 ± 1.7	9 ± 2.1	8 ± 0.6	9 ± 2.6	8 ± 0.7
100.0	5 ± 1.5	6 ± 1.7	9 ± 1.5	8 ± 1.5	8 ± 1.3
333.0	3 ± 1.2	7 ± 0.3	5 ± 1.2	8 ± 0.9	7 ± 3.3
1000.0	8 ± 0.9	7 ± 1.9	9 ± 1.2	9 ± 1.9	6 ± 0.0
3333.0	5 ± 1.8	6 ± 2.3	8 ± 1.5	7 ± 1.5	6 ± 0.9
10000.0	7 ± 0.9	6 ± 0.0	6 ± 0.3	5 ± 2.0	5 ± 2.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					82 ± 7.5
Positive Control ³			85 ± 5.6	120 ± 4.6	
Positive Control ⁵	207 ± 11.0	185 ± 68.8			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.3
100.0	11 ± 2.2
333.0	8 ± 0.3
1000.0	8 ± 0.3
3333.0	7 ± 2.9
10000.0	6 ± 2.0
Trial Summary	Negative
Positive Control ²	74 ± 1.7
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	14 ± 0.9	16 ± 1.2	24 ± 1.5	32 ± 2.7	24 ± 1.2
100.0	16 ± 2.9	18 ± 0.3	28 ± 3.5	34 ± 5.2	26 ± 2.0
333.0	19 ± 3.4	14 ± 2.0	26 ± 3.8	34 ± 1.9	23 ± 3.1
1000.0	18 ± 4.1	20 ± 1.2	20 ± 2.6	37 ± 4.9	26 ± 2.0
3333.0	16 ± 0.9	21 ± 2.0	19 ± 0.7	26 ± 2.6	22 ± 2.0
10000.0	17 ± 1.2	19 ± 2.1	21 ± 2.4	19 ± 2.9	22 ± 2.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1068 ± 41.9
Positive Control ³			1141 ± 68.4	902 ± 48.4	
Positive Control ⁶	1449 ± 27.3	1294 ± 14.4			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	41 ± 5.2
100.0	38 ± 3.3
333.0	34 ± 0.9
1000.0	30 ± 2.4
3333.0	36 ± 3.9
10000.0	20 ± 2.9
Trial Summary	Negative
Positive Control ²	798 ± 147.3
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: Dimethyl Sulfoxide

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 ****