

Experiment Number: 576172

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Diethyl phthalate

CAS Number: 84-66-2

Date Report Requested: 09/14/2018

Time Report Requested: 05:40:54

NTP Study Number:

576172

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	105 ± 1.2	114 ± 3.3	113 ± 9.9	129 ± 6.0	116 ± 4.4
10.0	100 ± 10.4	130 ± 5.9		127 ± 1.2	
33.0	106 ± 9.7	127 ± 5.3	114 ± 10.9	126 ± 4.6	114 ± 5.3
100.0	123 ± 3.8	126 ± 1.2	104 ± 1.5	130 ± 5.0	102 ± 11.6
333.0	115 ± 7.5	128 ± 0.9	117 ± 5.8	130 ± 1.7	87 ± 4.7
667.0		144 ± 5.8 ^s			
1000.0	Toxic		117 ± 5.2 ^s	136 ± 4.7 ^s	102 ± 8.0 ^s
3333.0			Toxic		Toxic
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control ²					1230 ± 70.8
Positive Control ³			1092 ± 42.8	1416 ± 7.7	
Positive Control ⁴	1356 ± 8.4	1463 ± 26.3			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	105 ± 7.2
10.0	108 ± 8.4
33.0	114 ± 8.6
100.0	126 ± 6.7
333.0	117 ± 4.9
667.0	
1000.0	98 ± 3.0 ^s
3333.0	
Trial Summary	Negative
Positive Control ²	2668 ± 64.9
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	20 ± 2.7	25 ± 3.0	49 ± 3.3	11 ± 0.7	9 ± 1.5
10.0	23 ± 1.5	27 ± 2.1	43 ± 3.8		13 ± 0.6
33.0	24 ± 3.9	34 ± 6.9	46 ± 2.6	9 ± 0.6	13 ± 0.3
100.0	23 ± 2.2	30 ± 4.9	49 ± 0.3	10 ± 2.4	11 ± 1.8
333.0	21 ± 2.7	32 ± 4.1	49 ± 7.0	11 ± 0.9	15 ± 1.2
667.0		26 ± 2.7 ^s	47 ± 0.7 ^s		
1000.0	Toxic			10 ± 3.1 ^s	13 ± 1.9 ^s
3333.0				Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				99 ± 12.4	
Positive Control ⁴	1127 ± 38.8		2216 ± 19.6		

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	12 ± 0.3	11 ± 2.8	12 ± 0.9	14 ± 3.0
10.0	12 ± 0.9		11 ± 1.7	12 ± 1.0
33.0	10 ± 1.5	10 ± 0.3	10 ± 0.7	14 ± 3.7
100.0	18 ± 2.1	11 ± 1.7	11 ± 0.9	14 ± 3.8
333.0	20 ± 0.6	11 ± 0.9	15 ± 1.2	11 ± 0.0
667.0				
1000.0	13 ± 1.2 ^s	8 ± 1.0 ^s	11 ± 2.3 ^s	10 ± 2.2 ^s
3333.0		Toxic		
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²		116 ± 7.9		251 ± 0.6
Positive Control ³	61 ± 5.4			
Positive Control ⁴				

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Mutagenicity**G06: Ames Summary Data**Test Compound: Diethyl phthalate
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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 ± 0.9	5 ± 1.7	6 ± 0.9	7 ± 1.9	7 ± 0.9
10.0	4 ± 0.3	7 ± 0.7		11 ± 1.8	
33.0	7 ± 1.8	5 ± 1.2	11 ± 1.5	9 ± 0.3	12 ± 0.9
100.0	8 ± 0.5	5 ± 1.0	10 ± 2.3	10 ± 1.5	9 ± 1.2
333.0	6 ± 1.2	7 ± 2.6	8 ± 1.2	6 ± 2.7	9 ± 2.4
667.0		6 ± 1.2 ^s			
1000.0	Toxic		7 ± 0.6	7 ± 1.3 ^s	6 ± 1.9 ^s
3333.0			5 ± 1.2 ^s		5 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					111 ± 7.2
Positive Control ³			119 ± 11.0	137 ± 4.0	
Positive Control ⁵	301 ± 102.6	161 ± 19.7			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 1.9
10.0	10 ± 1.8
33.0	9 ± 1.0
100.0	5 ± 0.3
333.0	10 ± 0.9
667.0	
1000.0	10 ± 3.5 ^s
3333.0	
Trial Summary	Negative
Positive Control ²	206 ± 16.5
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	21 ± 5.6	18 ± 2.4	26 ± 2.0	38 ± 0.7	27 ± 1.5
10.0	16 ± 3.0	22 ± 0.9		34 ± 4.3	
33.0	22 ± 1.0	17 ± 0.9	34 ± 1.2	33 ± 4.4	30 ± 1.7
100.0	23 ± 0.6	23 ± 1.7	29 ± 5.4	28 ± 2.1	26 ± 2.0
333.0	15 ± 0.3	20 ± 1.7	29 ± 3.9	29 ± 6.2	26 ± 2.3
667.0		16 ± 3.7			
1000.0	Toxic		30 ± 3.2 ^s	30 ± 0.3	22 ± 5.1 ^s
3333.0			12 ± 1.5 ^s		27 ± 2.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1252 ± 62.4
Positive Control ³			1119 ± 59.7	994 ± 61.7	
Positive Control ⁶	1492 ± 27.5	1548 ± 23.9			

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Test Compound: Diethyl phthalate
CAS Number: 84-66-2

Date Report Requested: 09/14/2018
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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	30 ± 1.5
10.0	29 ± 0.7
33.0	28 ± 5.5
100.0	29 ± 2.6
333.0	27 ± 2.0
667.0	
1000.0	27 ± 2.3 ^s
3333.0	
Trial Summary	Negative
Positive Control ²	2265 ± 15.9
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 ****