

Experiment Number: 463535

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

G06: Ames Summary Data

Test Compound: **Phthalic acid**

CAS Number: **88-99-3**

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

Time Report Requested: **10:14:23**

NTP Study Number:

463535

Study Result:

Negative

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Phthalic acid

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Date Report Requested: 09/11/2018

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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	134 ± 13.2	134 ± 4.9	152 ± 9.0	174 ± 4.9	135 ± 6.8
33.0		139 ± 6.0	137 ± 5.9		123 ± 13.0
100.0	140 ± 3.2	107 ± 4.9	134 ± 9.5	170 ± 4.3	146 ± 5.3
333.0	117 ± 8.5	126 ± 14.5	119 ± 3.7	165 ± 3.2	132 ± 10.1
1000.0	122 ± 4.3	117 ± 10.2	116 ± 7.3	160 ± 6.9	139 ± 11.5
3333.0	131 ± 13.4	113 ± 7.6	121 ± 4.5	134 ± 8.7	126 ± 7.8
10000.0	Toxic			35 ± 35.0 ^x	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					657 ± 5.1
Positive Control ³	429 ± 7.8	316 ± 3.5			
Positive Control ⁴			599 ± 23.1		
Positive Control ⁵				244 ± 6.7	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	144 ± 3.6
33.0	
100.0	137 ± 10.6
333.0	105 ± 3.1
1000.0	132 ± 8.5
3333.0	115 ± 8.4
10000.0	99 ± 3.8 ^x
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	462 ± 31.2
Positive Control ⁵	

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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	23 ± 1.2	16 ± 2.6	14 ± 3.3	16 ± 2.4	11 ± 2.4
33.0		21 ± 5.2	12 ± 2.1		12 ± 2.1
100.0	18 ± 0.0	20 ± 0.3	9 ± 1.7	13 ± 1.0	10 ± 1.5
333.0	15 ± 2.7	19 ± 2.6	14 ± 2.6	14 ± 0.9	9 ± 4.4
1000.0	18 ± 2.0	15 ± 2.0	15 ± 1.2	13 ± 0.9	10 ± 1.8
3333.0	15 ± 0.9	18 ± 1.5	18 ± 3.0	10 ± 1.9	8 ± 2.0
10000.0	0 ± 0.0 ^s			10 ± 1.0 ^p	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					150 ± 8.4
Positive Control ³	221 ± 3.1	273 ± 10.7			
Positive Control ⁵			121 ± 10.5		
Positive Control ⁶				88 ± 6.2	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 1.7
33.0	
100.0	12 ± 1.3
333.0	11 ± 2.7
1000.0	14 ± 2.2
3333.0	6 ± 0.6
10000.0	9 ± 0.7 ^x
Trial Summary	Negative
Positive Control ⁴	
Positive Control ³	
Positive Control ⁵	320 ± 41.3
Positive Control ⁶	

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Phthalic acid

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Date Report Requested: 09/11/2018

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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	184 ± 9.8	177 ± 9.0	160 ± 3.6	197 ± 9.1	136 ± 4.1
33.0		176 ± 6.7	171 ± 9.0		158 ± 10.0
100.0	151 ± 5.8	172 ± 3.8	171 ± 4.0	199 ± 8.4	196 ± 5.8
333.0	159 ± 8.6	175 ± 3.6	180 ± 2.3	188 ± 10.5	166 ± 2.7
1000.0	165 ± 5.0	172 ± 10.5	190 ± 2.9	213 ± 0.9	164 ± 15.4
3333.0	173 ± 8.1	169 ± 8.7	155 ± 2.6	204 ± 6.9	166 ± 13.7
10000.0	Toxic			115 ± 8.7 ^x	
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²					463 ± 15.8
Positive Control ⁴			449 ± 10.1		
Positive Control ⁵				431 ± 13.0	
Positive Control ⁷	439 ± 30.8	403 ± 11.1			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	164 ± 6.1
33.0	
100.0	182 ± 9.5
333.0	199 ± 6.5
1000.0	197 ± 6.4
3333.0	173 ± 13.5
10000.0	113 ± 19.0 ^x
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	332 ± 8.1
Positive Control ⁵	
Positive Control ⁷	

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Date Report Requested: 09/11/2018

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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	21 ± 1.8	14 ± 1.2	31 ± 3.3	37 ± 0.7	25 ± 2.4
33.0		13 ± 1.2	23 ± 4.2		24 ± 3.3
100.0	22 ± 3.5	15 ± 0.7	25 ± 3.2	34 ± 3.2	24 ± 3.8
333.0	21 ± 0.3	17 ± 0.9	24 ± 2.2	30 ± 3.1	22 ± 2.6
1000.0	21 ± 2.8	13 ± 1.3	20 ± 3.2	25 ± 1.5	24 ± 4.3
3333.0	13 ± 0.7	11 ± 1.3	18 ± 1.8	27 ± 1.8	24 ± 3.5
10000.0	Toxic			6 ± 2.0 ^x	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					385 ± 39.0
Positive Control ⁴			279 ± 4.9	104 ± 5.9	
Positive Control ⁸	372 ± 12.5	369 ± 25.1			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	36 ± 1.2
33.0	
100.0	26 ± 2.6
333.0	23 ± 2.1
1000.0	18 ± 1.5
3333.0	17 ± 1.9
10000.0	6 ± 1.0 ^x
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	495 ± 21.7
Positive Control ⁸	

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 1.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate 2-Aminoanthracene

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

x: Slight Toxicity and Precipitate

**** END OF REPORT ****