

Experiment Number: **648374**

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

G06: Ames Summary Data

Test Compound: **Phthalic anhydride**

CAS Number: **85-44-9**

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

Time Report Requested: **05:20:35**

NTP Study Number:

648374

Study Result:

Negative

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CAS Number: 85-44-9

Date Report Requested: 09/11/2018

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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	133 ± 0.7	132 ± 3.2	112 ± 5.9	121 ± 10.8	97 ± 2.2
1.0	110 ± 11.3	124 ± 0.7			
3.3	91 ± 1.8	119 ± 1.5	100 ± 3.3		96 ± 1.8
10.0	108 ± 11.9	119 ± 15.3	105 ± 5.3	131 ± 1.7	96 ± 4.6
33.0	121 ± 10.1	104 ± 3.4 ^s	125 ± 5.8	113 ± 9.5	110 ± 9.0
67.0		99 ± 4.6 ^s			
100.0	72 ± 8.5 ^s		115 ± 11.7	132 ± 3.7	93 ± 5.6
333.0			87 ± 3.1	111 ± 10.4 ^s	86 ± 2.5
666.0				82 ± 1.9 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1339 ± 51.6
Positive Control ³			1220 ± 64.0	1212 ± 51.4	
Positive Control ⁴	2153 ± 69.0	2079 ± 64.0			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	108 ± 8.8
1.0	
3.3	
10.0	113 ± 14.2
33.0	115 ± 7.9
67.0	
100.0	108 ± 12.9
333.0	101 ± 9.6 ^S
666.0	74 ± 3.4 ^S
Trial Summary	Negative
Positive Control ²	1589 ± 39.7
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	26 ± 2.0	24 ± 1.2	8 ± 2.1	14 ± 3.6	8 ± 2.3
1.0	27 ± 3.8	27 ± 3.5			
3.3	23 ± 2.7	22 ± 3.1	13 ± 1.7		11 ± 1.5
10.0	25 ± 4.1	26 ± 0.9	13 ± 2.0	11 ± 2.7	12 ± 2.3
33.0	22 ± 1.0	19 ± 0.7 ^s	11 ± 3.8	8 ± 1.8	11 ± 1.2
67.0		12 ± 1.5 ^s			
100.0	20 ± 4.9 ^s		14 ± 2.6	11 ± 1.3	8 ± 1.0
333.0			7 ± 0.9	9 ± 1.2 ^s	8 ± 1.2
666.0				10 ± 2.2 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					131 ± 5.9
Positive Control ³			82 ± 8.1	119 ± 8.4	
Positive Control ⁴	1961 ± 96.9	1558 ± 32.4			

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Test Compound: Phthalic anhydride
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Date Report Requested: 09/11/2018
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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 0.6
1.0	
3.3	
10.0	12 ± 1.2
33.0	6 ± 0.0
67.0	
100.0	11 ± 1.8
333.0	10 ± 0.9
666.0	7 ± 1.2 ^s
Trial Summary	Negative
Positive Control ²	156 ± 9.5
Positive Control ³	
Positive Control ⁴	

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Test Compound: Phthalic anhydride

CAS Number: 85-44-9

Date Report Requested: 09/11/2018

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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	10 ± 1.5	9 ± 2.2	10 ± 2.5	9 ± 1.2	8 ± 0.9
1.0	5 ± 0.9	7 ± 0.6			
3.3	11 ± 1.9	7 ± 1.3	9 ± 1.3		7 ± 1.8
10.0	6 ± 1.2	5 ± 1.2	6 ± 1.9	8 ± 1.2	7 ± 0.6
33.0	6 ± 0.6	5 ± 1.3	8 ± 2.5	7 ± 1.0	8 ± 1.5
67.0		7 ± 0.9 ^S			
100.0	5 ± 0.7 ^S		5 ± 0.3	9 ± 2.0	10 ± 2.3
333.0			8 ± 0.9	4 ± 0.6 ^S	8 ± 0.7
666.0				7 ± 0.9 ^S	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					117 ± 6.1
Positive Control ³			107 ± 9.5	158 ± 3.6	
Positive Control ⁵	177 ± 19.7	168 ± 7.2			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 2.4
1.0	
3.3	
10.0	10 ± 1.5
33.0	8 ± 0.6
67.0	
100.0	8 ± 0.6
333.0	8 ± 2.3
666.0	6 ± 0.3 ^s
Trial Summary	Negative
Positive Control ²	173 ± 5.4
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	22 ± 2.1	20 ± 0.6	26 ± 3.1	21 ± 3.2	23 ± 1.0
1.0	19 ± 0.3	24 ± 1.5			
3.3	19 ± 1.5	22 ± 4.1	35 ± 1.7		31 ± 2.8
10.0	21 ± 2.9	23 ± 5.4	24 ± 2.1	31 ± 2.6	27 ± 4.8
33.0	21 ± 2.7	28 ± 2.5	21 ± 0.7	27 ± 3.7	24 ± 2.6
67.0		15 ± 2.0 ^s			
100.0	11 ± 1.0 ^s		26 ± 1.8	26 ± 1.5	20 ± 1.2
333.0			25 ± 2.1	23 ± 1.2 ^s	23 ± 2.3
666.0				21 ± 4.3 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					919 ± 34.3
Positive Control ³			803 ± 28.7	988 ± 44.4	
Positive Control ⁶	1399 ± 26.1	1563 ± 19.2			

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Mutagenicity

G06: Ames Summary Data

Test Compound: Phthalic anhydride

CAS Number: 85-44-9

Date Report Requested: 09/11/2018

Time Report Requested: 05:20:35

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	24 ± 2.2
1.0	
3.3	
10.0	25 ± 5.0
33.0	35 ± 3.2
67.0	
100.0	20 ± 1.2
333.0	23 ± 2.2 ^s
666.0	17 ± 2.9 ^s
Trial Summary	Negative
Positive Control ²	1387 ± 68.2
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 ****