

Experiment Number: 050139

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Phthalic anhydride

CAS Number: 85-44-9

Date Report Requested: 09/15/2018

Time Report Requested: 02:13:07

NTP Study Number:

050139

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	92 ± 7.5	101 ± 10.0	80 ± 3.5	126 ± 4.7	134 ± 6.6
3.3		77 ± 10.7	64 ± 0.9		
10.0		100 ± 2.2	81 ± 6.0		
33.0	97 ± 12.0	113 ± 4.0	92 ± 9.5	126 ± 6.8	130 ± 9.7
100.0	91 ± 7.0	94 ± 4.6	78 ± 2.0	98 ± 5.2	141 ± 4.8
333.0	81 ± 2.0	86 ± 2.2	74 ± 3.2	78 ± 7.6	103 ± 1.2
1000.0	Toxic			53 ± 6.4	118 ± 7.6
3333.0	0 ± 0.0			Toxic	102 ± 10.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				847 ± 17.7	1170 ± 52.7
Positive Control ³	837 ± 70.0	692 ± 11.6	330 ± 31.2		

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	116 ± 21.5	132 ± 9.2
3.3		
10.0		
33.0	126 ± 7.0	137 ± 4.7
100.0	78 ± 6.7	132 ± 9.1
333.0	76 ± 5.6	125 ± 15.0
1000.0	59 ± 4.2	116 ± 17.7
3333.0	Toxic	100 ± 17.2
Trial Summary	Negative	Negative
Positive Control ²	2712 ± 145.5	1598 ± 71.7
Positive Control ³		

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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	6 ± 1.5	5 ± 0.3	6 ± 1.5	6 ± 0.9	4 ± 1.0
3.3		4 ± 0.6	5 ± 0.9		
10.0		5 ± 0.3	5 ± 0.3		
33.0	4 ± 0.7	5 ± 0.9	5 ± 0.0	6 ± 2.0	2 ± 0.0
100.0	4 ± 0.7	5 ± 0.6	5 ± 0.9	2 ± 0.9	4 ± 0.3
333.0	3 ± 0.7	3 ± 0.6	3 ± 0.6	1 ± 0.3	4 ± 1.7
1000.0	Toxic			3 ± 0.3	2 ± 0.9
3333.0	0 ± 0.0			Toxic	4 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				33 ± 3.1	68 ± 7.8
Positive Control ³	413 ± 39.1	748 ± 40.4	134 ± 7.5		

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	4 ± 0.6	3 ± 0.7
3.3		
10.0		
33.0	4 ± 0.7	2 ± 0.3
100.0	4 ± 0.3	4 ± 0.9
333.0	2 ± 0.3	4 ± 0.6
1000.0	1 ± 0.6	3 ± 0.6
3333.0	Toxic	2 ± 0.7
Trial Summary	Negative	Negative
Positive Control ²	160 ± 43.9	158 ± 29.1
Positive Control ³		

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Strain: TA1537

Dose (ug/Plate)	Without S9		Without S9		Without S9		With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	5 ±	1.5	4 ±	0.6	5 ±	1.8	8 ± 2.1	13 ± 3.7
3.3			6 ±	1.2	7 ±	1.8		
10.0			5 ±	0.9	7 ±	2.4		
33.0	5 ±	1.2	5 ±	0.7	6 ±	0.9	7 ± 0.9	8 ± 1.5
100.0	2 ±	0.0	2 ±	0.9	2 ±	0.3	7 ± 0.0	8 ± 0.9
333.0	3 ±	0.7	4 ±	1.2	3 ±	0.9	7 ± 1.0	6 ± 2.0
1000.0	Toxic						3 ± 0.6	4 ± 0.6
3333.0	0 ±	0.0					Toxic	5 ± 1.5
Trial Summary	Negative		Negative		Negative		Negative	Negative
Positive Control ²							100 ± 17.4	87 ± 5.1
Positive Control ⁴	579 ± 311.4		1313 ± 226.8		757 ± 113.8			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	5 ± 0.3	5 ± 0.3
3.3		
10.0		5 ± 1.5
33.0	4 ± 0.3	6 ± 1.2
100.0	3 ± 0.9	6 ± 2.2
333.0	3 ± 1.2	4 ± 0.6
1000.0	1 ± 0.0	2 ± 0.7
3333.0	Toxic	
Trial Summary	Negative	Negative
Positive Control ²	132 ± 1.5	222 ± 9.5
Positive Control ⁴		

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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	18 ± 2.3	12 ± 3.1	21 ± 2.8	18 ± 1.8	23 ± 0.9
10.0		9 ± 2.5			
33.0	16 ± 2.6	10 ± 1.2	20 ± 0.9	11 ± 1.2	32 ± 5.2
100.0	14 ± 1.8	15 ± 2.1	16 ± 3.5	19 ± 1.2	19 ± 1.8
333.0	15 ± 0.6	10 ± 3.0	10 ± 0.3	15 ± 1.2	6 ± 1.5
1000.0	3 ± 1.2	11 ± 0.7	4 ± 1.5	7 ± 2.1	7 ± 0.9
3333.0	Toxic		Toxic	14 ± 4.2	1 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			659 ± 41.7	600 ± 36.1	2089 ± 36.5
Positive Control ⁵	326 ± 21.2	377 ± 79.9			

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Test Compound: Phthalic anhydride

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Date Report Requested: 09/15/2018

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	21 ± 3.8
10.0	
33.0	15 ± 0.3
100.0	21 ± 5.2
333.0	14 ± 2.3
1000.0	11 ± 2.7
3333.0	11 ± 2.6
Trial Summary	Negative
Positive Control ²	1725 ± 83.8
Positive Control ⁵	

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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: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****