

Experiment Number: 318878

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Trioctyl phosphate

CAS Number: 1806-54-8

Date Report Requested: 09/12/2018

Time Report Requested: 09:46:31

NTP Study Number:

318878

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	145 ± 9.6	119 ± 15.7	145 ± 14.3	143 ± 10.9	147 ± 3.8
100.0	120 ± 12.0	107 ± 13.0	145 ± 5.2	146 ± 7.1	159 ± 7.7
333.0	112 ± 8.8	125 ± 4.7	159 ± 9.7	123 ± 12.4	120 ± 12.5
1000.0	129 ± 11.6	120 ± 10.5	147 ± 7.0	141 ± 4.4	154 ± 16.6
3333.0	98 ± 6.0	119 ± 7.0	141 ± 5.9	141 ± 4.9	152 ± 7.0
10000.0	109 ± 8.2 ^s	110 ± 7.0 ^s	142 ± 7.7 ^x	128 ± 5.9 ^x	133 ± 13.7 ^x
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					617 ± 20.7
Positive Control ³			898 ± 128.2	583 ± 32.2	
Positive Control ⁴	937 ± 51.7	1495 ± 41.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	130 ± 4.6
100.0	137 ± 7.8
333.0	133 ± 6.2
1000.0	127 ± 3.9
3333.0	133 ± 6.4
10000.0	120 ± 6.0 ^x
Trial Summary	Negative
Positive Control ²	384 ± 6.9
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	56 ± 2.9	37 ± 2.1	42 ± 6.6	36 ± 3.1	83 ± 10.7
100.0	57 ± 6.7	36 ± 4.0	48 ± 8.1	37 ± 2.3	114 ± 9.9
333.0	74 ± 6.0	41 ± 3.9	32 ± 3.0	35 ± 0.9	123 ± 8.4
1000.0	56 ± 2.6	37 ± 1.5	36 ± 1.8	33 ± 2.8	118 ± 23.1
3333.0	53 ± 2.6	36 ± 3.1	41 ± 4.2	35 ± 5.4	130 ± 3.5
10000.0	62 ± 7.5 ^s	36 ± 1.2	40 ± 1.2 ^s	35 ± 4.0 ^s	99 ± 2.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³					174 ± 2.0
Positive Control ⁴	574 ± 29.8	779 ± 22.5	1176 ± 21.5	1284 ± 9.5	

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	31 ± 3.8	40 ± 6.9	41 ± 2.6	82 ± 6.2	44 ± 1.0
100.0	36 ± 2.7	37 ± 4.3	35 ± 0.7	91 ± 7.8	43 ± 3.7
333.0	31 ± 0.6	43 ± 3.3	46 ± 4.6	106 ± 8.0	38 ± 0.3
1000.0	30 ± 0.6	43 ± 3.8	43 ± 3.5	105 ± 9.2	38 ± 2.3
3333.0	33 ± 5.6	33 ± 1.5	40 ± 1.2	112 ± 12.9	43 ± 1.7
10000.0	27 ± 7.4 ^x	37 ± 3.5 ^x	45 ± 4.4 ^x	98 ± 15.5	35 ± 0.9 ^x
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				134 ± 12.5	118 ± 4.8
Positive Control ³	118 ± 8.0	60 ± 9.0	141 ± 6.7		
Positive Control ⁴					

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	38 ± 1.5	36 ± 2.2
100.0	42 ± 3.4	46 ± 4.3
333.0	33 ± 0.6	35 ± 4.1
1000.0	34 ± 1.2	29 ± 2.7
3333.0	42 ± 2.8	32 ± 3.2
10000.0	39 ± 5.9 ^x	45 ± 1.8 ^x
Trial Summary	Negative	Negative
Positive Control ²	53 ± 3.1	153 ± 4.3
Positive Control ³		
Positive Control ⁴		

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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	7 ± 0.9	6 ± 1.5	6 ± 1.2	11 ± 2.9	7 ± 1.3
100.0	3 ± 0.9	6 ± 0.3	6 ± 2.0	7 ± 0.9	11 ± 3.5
333.0	4 ± 0.9	4 ± 0.7	7 ± 0.9	8 ± 0.7	8 ± 3.2
1000.0	7 ± 1.2	7 ± 0.0	5 ± 1.2	6 ± 1.5	13 ± 1.7
3333.0	5 ± 2.3	7 ± 1.2	6 ± 1.5 ^s	5 ± 1.5	9 ± 1.5
10000.0	5 ± 0.3	6 ± 0.9	4 ± 2.4 ^s	6 ± 1.2 ^x	10 ± 1.8 ^x
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				82 ± 4.0	53 ± 4.0
Positive Control ⁵	251 ± 21.1	59 ± 7.2	493 ± 35.6		

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Strain: TA1537

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 2.4	7 ± 0.3	5 ± 1.2	7 ± 0.9
100.0	11 ± 2.3	7 ± 1.2	7 ± 1.8	8 ± 0.9
333.0	8 ± 1.2	9 ± 1.0	10 ± 1.2	7 ± 1.0
1000.0	9 ± 2.3	7 ± 1.8	8 ± 2.2	9 ± 1.3
3333.0	8 ± 1.5	7 ± 2.0	8 ± 1.3	9 ± 2.7
10000.0	6 ± 1.2 ^x	7 ± 0.9 ^x	10 ± 2.6 ^x	7 ± 1.3 ^x
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²		47 ± 2.5	36 ± 4.7	85 ± 1.5
Positive Control ³	145 ± 11.4			
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	17 ± 0.3	26 ± 3.8	29 ± 1.5	38 ± 1.9	33 ± 2.4
100.0	19 ± 3.5	25 ± 1.2	33 ± 2.9	41 ± 2.4	37 ± 5.9
333.0	19 ± 2.6	20 ± 2.9	37 ± 2.7	43 ± 5.8	32 ± 3.4
1000.0	20 ± 1.3	23 ± 2.6	33 ± 5.2	50 ± 0.3	33 ± 3.8
3333.0	27 ± 2.5	27 ± 4.2	32 ± 3.7	37 ± 5.2	33 ± 5.8
10000.0	17 ± 3.8 ^s	17 ± 2.5	36 ± 2.3 ^x	40 ± 4.3 ^x	32 ± 2.0 ^x
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²					422 ± 28.1
Positive Control ³			702 ± 26.8	691 ± 21.6	
Positive Control ⁶	1320 ± 30.2	1761 ± 52.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	39 ± 4.0
100.0	39 ± 4.7
333.0	34 ± 2.3
1000.0	46 ± 3.5
3333.0	38 ± 4.5
10000.0	36 ± 2.1 ^x
Trial Summary	Negative
Positive Control ²	365 ± 19.9
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: 95% Ethanol

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

x: Slight Toxicity and Precipitate

**** END OF REPORT ****