

Experiment Number: 323847

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: tris(2-Ethylhexyl)phosphate

CAS Number: 78-42-2

Date Report Requested: 09/12/2018

Time Report Requested: 10:29:48

NTP Study Number:

323847

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	99 ± 9.3	77 ± 2.5	123 ± 3.8	91 ± 4.1	138 ± 4.3
100.0	102 ± 1.8	69 ± 2.1	127 ± 14.9	89 ± 5.5	133 ± 3.2
333.0	112 ± 4.3	78 ± 2.3	126 ± 4.6	92 ± 8.1	140 ± 5.8
1000.0	110 ± 5.1	71 ± 8.7	140 ± 8.7	96 ± 11.9	133 ± 6.4
3333.0	72 ± 3.2	63 ± 9.2	138 ± 6.1	98 ± 5.2	138 ± 4.6
10000.0	81 ± 3.8	56 ± 1.2	121 ± 3.8	97 ± 6.4	141 ± 5.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1734 ± 164.8	965 ± 42.9	1668 ± 119.1
Positive Control ³	1389 ± 267.7	481 ± 85.9			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	101 ± 6.1
100.0	89 ± 3.1
333.0	87 ± 4.1
1000.0	106 ± 10.3
3333.0	102 ± 6.5
10000.0	101 ± 5.8
Trial Summary	Negative
Positive Control ²	1700 ± 203.2
Positive Control ³	

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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	6 ± 0.9	5 ± 1.9	11 ± 1.2	8 ± 1.5	9 ± 1.2
100.0	6 ± 1.8	5 ± 0.9	9 ± 0.3	4 ± 1.2	8 ± 0.3
333.0	7 ± 1.3	3 ± 0.9	7 ± 1.5	6 ± 0.6	9 ± 1.7
1000.0	7 ± 1.5	4 ± 1.5	7 ± 1.2	4 ± 1.5	6 ± 1.2
3333.0	6 ± 0.6	8 ± 1.2	6 ± 1.5	3 ± 0.3	7 ± 0.9
10000.0	4 ± 1.2	4 ± 1.2	7 ± 2.2	7 ± 0.3	7 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			103 ± 11.3	25 ± 2.1	202 ± 5.8
Positive Control ³	1154 ± 18.6	696 ± 41.3			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 2.1
100.0	4 ± 0.6
333.0	5 ± 1.5
1000.0	5 ± 0.7
3333.0	4 ± 0.9
10000.0	7 ± 1.5
Trial Summary	Negative
Positive Control ²	78 ± 7.1
Positive Control ³	

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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 ± 1.5	3 ± 0.7	6 ± 1.0	5 ± 0.6	9 ± 0.9
100.0	6 ± 1.5	4 ± 0.7	9 ± 2.7	6 ± 0.9	9 ± 1.5
333.0	9 ± 0.0	5 ± 1.5	7 ± 1.9	6 ± 0.6	6 ± 0.6
1000.0	6 ± 0.6	3 ± 1.0	6 ± 1.9	4 ± 0.3	6 ± 0.6
3333.0	10 ± 2.3	4 ± 0.3	9 ± 1.5	4 ± 0.7	9 ± 1.5
10000.0	6 ± 2.4	3 ± 0.9	8 ± 2.1	5 ± 1.3	5 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			147 ± 14.5	74 ± 7.7	213 ± 18.6
Positive Control ⁴	77 ± 12.0	104 ± 24.3			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 2.8
100.0	9 ± 1.2
333.0	7 ± 0.3
1000.0	9 ± 1.2
3333.0	7 ± 3.8
10000.0	7 ± 1.9
Trial Summary	Negative
Positive Control ²	123 ± 14.6
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	4 ± 1.3	11 ± 2.3	8 ± 1.9	19 ± 2.5	6 ± 1.2
100.0	5 ± 1.0	8 ± 1.5	9 ± 2.3	13 ± 2.8	8 ± 1.5
333.0	5 ± 1.8	10 ± 0.6	10 ± 0.9	16 ± 0.7	7 ± 0.6
1000.0	4 ± 0.6	8 ± 1.0	6 ± 0.3	17 ± 2.1	6 ± 2.2
3333.0	5 ± 0.9	9 ± 1.7	8 ± 1.3	14 ± 2.0	6 ± 1.2
10000.0	5 ± 0.7	8 ± 1.7	7 ± 1.2	16 ± 1.7	6 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²		87 ± 10.7	118 ± 1.5	431 ± 22.2	612 ± 135.2
Positive Control ⁵	157 ± 9.6				

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	18 ± 5.6
100.0	19 ± 0.3
333.0	18 ± 2.9
1000.0	19 ± 2.1
3333.0	18 ± 1.8
10000.0	17 ± 4.5
Trial Summary	Negative
Positive Control ²	1169 ± 48.5
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 ****