

Experiment Number: 546373

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: tris(2-Chloroethyl) phosphite

CAS Number: 140-08-9

Date Report Requested: 09/13/2018

Time Report Requested: 17:27:12

NTP Study Number:

546373

Study Result:

Weakly Positive

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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	93 ± 20.0	81 ± 7.6	119 ± 1.5	118 ± 4.7	127 ± 16.4
333.0	149 ± 1.9	121 ± 6.8	124 ± 0.9	131 ± 6.4	127 ± 6.7
1000.0	118 ± 1.5	121 ± 12.1	152 ± 1.2	145 ± 3.5	126 ± 3.5
3333.0	141 ± 5.6	121 ± 1.0	124 ± 7.8	130 ± 4.7	149 ± 17.6
10000.0	180 ± 3.8	184 ± 13.7	166 ± 17.3	165 ± 4.4	187 ± 6.5
13800.0	207 ± 6.3	174 ± 7.0	183 ± 4.9	161 ± 9.1	166 ± 3.7
Trial Summary	Weakly Positive	Weakly Positive	Equivocal	Equivocal	Equivocal
Positive Control ²			392 ± 15.0	1567 ± 18.1	1281 ± 87.4
Positive Control ³	316 ± 86.8	471 ± 10.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	112 ± 7.4
333.0	144 ± 17.6
1000.0	131 ± 11.3
3333.0	149 ± 12.3
10000.0	190 ± 13.0
13800.0	171 ± 13.9
Trial Summary	Equivocal
Positive Control ²	2148 ± 23.9
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	4 ± 1.2	2 ± 1.2	4 ± 2.0	2 ± 1.2	5 ± 0.9
333.0	5 ± 0.7	6 ± 1.2	5 ± 0.9	6 ± 1.9	7 ± 0.9
1000.0	5 ± 0.9	11 ± 3.3	6 ± 2.0	8 ± 0.9	6 ± 1.0
3333.0	5 ± 0.6	7 ± 1.5	4 ± 1.7	4 ± 1.5	4 ± 0.7
10000.0	10 ± 1.5	9 ± 3.4	3 ± 0.5	6 ± 1.5	10 ± 2.5
13800.0	6 ± 1.3	8 ± 1.0	3 ± 0.9	4 ± 1.5	7 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			48 ± 2.6	37 ± 7.4	47 ± 3.8
Positive Control ³	46 ± 2.9	105 ± 3.5			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	6 ± 0.7
333.0	4 ± 0.9
1000.0	6 ± 1.2
3333.0	5 ± 0.3
10000.0	10 ± 1.8
13800.0	7 ± 0.7
Trial Summary	Negative
Positive Control ²	24 ± 8.7
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	3 ± 0.9	2 ± 1.0	5 ± 0.3	4 ± 1.8	5 ± 0.0
333.0	3 ± 1.2	4 ± 0.9	6 ± 0.0	6 ± 0.9	3 ± 0.7
1000.0	7 ± 3.3	5 ± 2.3	5 ± 1.2	4 ± 1.0	9 ± 1.5
3333.0	9 ± 3.4	6 ± 3.2	3 ± 0.6	6 ± 1.5	7 ± 0.9
10000.0	8 ± 2.9	5 ± 3.3	6 ± 0.9	6 ± 0.7	6 ± 1.7
13800.0	3 ± 1.2	4 ± 0.3	5 ± 1.5	3 ± 0.9	6 ± 1.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			154 ± 5.2	59 ± 3.5	211 ± 14.9
Positive Control ⁴	2928 ± 133.7	582 ± 271.5			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	5 ± 0.9
333.0	4 ± 1.0
1000.0	7 ± 1.5
3333.0	5 ± 1.2
10000.0	4 ± 2.5
13800.0	7 ± 0.5
Trial Summary	Negative
Positive Control ²	139 ± 13.9
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	15 ± 1.5	13 ± 2.8	19 ± 3.5	19 ± 0.9	21 ± 2.6
333.0	13 ± 2.0	17 ± 1.8	27 ± 4.6	22 ± 2.4	25 ± 2.3
1000.0	16 ± 0.6	16 ± 1.5	34 ± 6.6	27 ± 4.4	22 ± 3.3
3333.0	14 ± 1.5	17 ± 4.4	30 ± 4.2	25 ± 4.5	19 ± 1.5
10000.0	17 ± 2.9	13 ± 2.8	34 ± 5.0	25 ± 5.1	26 ± 2.1
13800.0	28 ± 2.6	26 ± 2.9	31 ± 6.3	24 ± 4.3	13 ± 2.5
Trial Summary	Equivocal	Equivocal	Equivocal	Negative	Negative
Positive Control ²			1187 ± 145.4	1410 ± 51.2	1365 ± 27.9
Positive Control ⁵	236 ± 6.7	335 ± 11.3			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	21 ± 0.6
333.0	20 ± 2.3
1000.0	23 ± 1.2
3333.0	19 ± 1.5
10000.0	22 ± 2.7
13800.0	21 ± 3.8
Trial Summary	Negative
Positive Control ²	538 ± 14.7
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 ****