

Experiment Number: 610291

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Chlorinated trisodium phosphate

CAS Number: 56802-99-4

Date Report Requested: 09/15/2018

Time Report Requested: 01:27:24

NTP Study Number:

610291

Study Result:

Weakly Positive

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Date Report Requested: 09/15/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	90 ± 2.6	110 ± 7.5	83 ± 2.1	116 ± 5.2	118 ± 3.2
10.0	89 ± 9.0				
33.0	74 ± 3.7				
100.0	85 ± 2.5	101 ± 8.2	79 ± 4.1	97 ± 8.5	107 ± 6.2
333.0	93 ± 4.7 ^s	100 ± 0.9	88 ± 7.7	109 ± 3.4	106 ± 2.6
667.0	104 ± 10.3 ^s				
1000.0		111 ± 4.7	87 ± 8.3	116 ± 12.0	116 ± 1.5
3333.0		106 ± 12.4 ^s	120 ± 5.3 ^s	164 ± 6.2	122 ± 2.0
6666.0		Toxic	Toxic	Toxic	183 ± 4.4 ^s
Trial Summary	Negative	Negative	Negative	Equivocal	Equivocal
Positive Control ²					
Positive Control ³		3411 ± 55.8	1303 ± 22.3	1900 ± 119.5	
Positive Control ⁴					886 ± 16.1
Positive Control ⁵	1074 ± 50.4				

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Strain: TA100

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	106 ± 9.3	63 ± 3.8	101 ± 5.8	100 ± 9.2	96 ± 3.8
10.0					
33.0					
100.0	98 ± 5.3	75 ± 7.9	115 ± 7.0	103 ± 0.6	89 ± 2.9
333.0	92 ± 6.2	81 ± 4.7	99 ± 4.4	94 ± 8.7	108 ± 4.1
667.0					
1000.0	115 ± 11.5	79 ± 2.9	144 ± 11.7	117 ± 0.9	101 ± 0.7
3333.0	89 ± 6.4 ^s	112 ± 5.9 ^s	176 ± 14.2 ^s	156 ± 1.5 ^s	115 ± 1.8
6666.0	Toxic	Toxic	267 ± 83.7 ^s	Toxic	185 ± 16.9 ^s
Trial Summary	Negative	Equivocal	Positive	Equivocal	Equivocal
Positive Control ²	2857 ± 54.9	1328 ± 34.3	85 ± 7.5	2205 ± 18.7	
Positive Control ³					
Positive Control ⁴					1360 ± 8.1
Positive Control ⁵					

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	21 ± 2.0	20 ± 4.7	12 ± 2.0	11 ± 1.8	11 ± 0.9
10.0	19 ± 1.5				
33.0	22 ± 2.6				
100.0	18 ± 0.9	12 ± 1.2	8 ± 2.5	11 ± 1.2	12 ± 1.0
333.0	21 ± 3.7 ^s	17 ± 3.1	11 ± 1.2	11 ± 1.5	12 ± 1.2
667.0	25 ± 2.6 ^s				
1000.0		18 ± 2.6	11 ± 1.2	14 ± 0.9	15 ± 2.2
3333.0		25 ± 3.7 ^s	13 ± 1.7 ^s	19 ± 2.1 ^s	17 ± 2.4
6666.0		Toxic	19 ± 6.4 ^s	Toxic	23 ± 4.9
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²					
Positive Control ³		123 ± 2.5	107 ± 1.9	126 ± 8.5	
Positive Control ⁴					122 ± 7.1
Positive Control ⁵	1038 ± 20.1				

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Strain: TA1535

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	10 ± 2.6	9 ± 0.3	11 ± 0.6	12 ± 0.7
10.0				
33.0				
100.0	13 ± 3.7	7 ± 2.1	8 ± 2.1	17 ± 2.6
333.0	11 ± 2.7	8 ± 2.3	15 ± 1.9	11 ± 1.2
667.0				
1000.0	22 ± 4.4	9 ± 3.3	13 ± 0.6	12 ± 1.8
3333.0	11 ± 0.0 ^s	31 ± 2.9 ^s	32 ± 0.7 ^s	14 ± 2.5
6666.0	Toxic	45 ± 11.0 ^s	31 ± 2.8 ^s	40 ± 3.2 ^s
Trial Summary	Equivocal	Positive	Weakly Positive	Equivocal
Positive Control ²	103 ± 8.5	122 ± 6.4	110 ± 4.0	
Positive Control ³				
Positive Control ⁴				227 ± 18.0
Positive Control ⁵				

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Strain: TA97

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	91 ± 4.1	158 ± 10.7	107 ± 1.9	170 ± 13.4	203 ± 6.5
10.0	92 ± 6.8				
33.0	88 ± 5.4				
100.0	87 ± 9.1	158 ± 7.9	122 ± 3.7	164 ± 11.3	223 ± 9.4
333.0	92 ± 8.8	188 ± 6.7	116 ± 4.9	184 ± 6.7	211 ± 14.7
667.0	92 ± 2.2 ^s				
1000.0		167 ± 8.7	127 ± 8.7 ^s	199 ± 16.4	222 ± 6.7
3333.0		218 ± 14.5 ^s	163 ± 6.9 ^s	232 ± 6.6 ^s	225 ± 14.0
6666.0		Toxic	109 ± 3.5 ^s	104 ± 5.9 ^s	243 ± 1.7 ^s
Trial Summary	Negative	Equivocal	Equivocal	Equivocal	Negative
Positive Control ²					
Positive Control ³		2138 ± 66.2	1159 ± 29.9	1139 ± 11.1	
Positive Control ⁴					559 ± 11.3
Positive Control ⁶	1097 ± 59.6				

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Strain: TA97

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	126 ± 1.0	105 ± 6.4	146 ± 5.4	166 ± 5.8
10.0				
33.0				
100.0	135 ± 12.3	102 ± 6.4	144 ± 1.2	165 ± 7.6
333.0	146 ± 0.4	103 ± 4.7	134 ± 8.8	174 ± 7.5
667.0				
1000.0	142 ± 8.0	106 ± 3.8	153 ± 3.2	177 ± 6.1
3333.0	106 ± 15.1 ^s	128 ± 9.6 ^s	165 ± 9.6	169 ± 10.3
6666.0	Toxic	Toxic	Toxic	200 ± 11.8 ^s
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	1312 ± 42.2	932 ± 132.6	1114 ± 22.5	
Positive Control ³				
Positive Control ⁴				921 ± 11.4
Positive Control ⁶				

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	18 ± 0.9	24 ± 2.8	25 ± 3.3
10.0	22 ± 0.3		
33.0	19 ± 2.1		
100.0	16 ± 2.1	29 ± 2.7	23 ± 2.1
333.0	15 ± 1.7	22 ± 2.0	26 ± 2.6
667.0	17 ± 0.3		
1000.0		24 ± 2.7	30 ± 0.3
3333.0		28 ± 1.7 ^s	20 ± 2.0 ^s
6666.0		13 ± 0.6 ^s	Toxic
Trial Summary	Negative	Negative	Negative
Positive Control ²			1035 ± 52.2
Positive Control ³		1176 ± 54.7	
Positive Control ⁷	1785 ± 56.2		

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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: Water

2: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 4.0 ug/Plate 9-Aminoacridine

7: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****