

Experiment Number: 781178

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: **Sodium phosphate, dibasic**

CAS Number: 7558-79-4

Date Report Requested: 09/18/2018

Time Report Requested: 01:28:06

NTP Study Number:

781178

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	98 ± 10.3	79 ± 0.6	102 ± 2.4	91 ± 7.0	84 ± 12.2
100.0	106 ± 5.3	92 ± 6.0	119 ± 4.5	103 ± 2.4	113 ± 8.5
333.3	98 ± 4.8	80 ± 3.5	107 ± 12.0	96 ± 9.3	105 ± 0.3
1000.0	97 ± 0.5	84 ± 3.7	101 ± 7.2	87 ± 7.7	112 ± 11.5
3333.3	88 ± 5.7	82 ± 4.1	96 ± 6.8	96 ± 1.7	99 ± 5.1
10000.0	106 ± 4.6	88 ± 5.4	108 ± 9.7	86 ± 4.0	96 ± 6.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	318 ± 21.4	458 ± 10.7			
Positive Control ³			684 ± 44.0	553 ± 5.5	428 ± 22.9

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	134 ± 4.0
100.0	90 ± 7.8
333.3	92 ± 3.0
1000.0	83 ± 8.5
3333.3	91 ± 6.1
10000.0	103 ± 6.4
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1161 ± 10.3

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 1% Hamster S9
Vehicle Control ¹	16 ± 0.9	13 ± 0.9	11 ± 1.5	6 ± 0.3	8 ± 1.5
100.0	25 ± 2.6	16 ± 1.0	7 ± 1.5	10 ± 2.6	13 ± 4.0
333.3	20 ± 3.2	11 ± 1.8	5 ± 0.9	8 ± 3.5	10 ± 1.5
1000.0	20 ± 2.6	12 ± 2.5	5 ± 0.3	6 ± 0.3	7 ± 2.0
3333.3	21 ± 1.7	10 ± 1.9	5 ± 0.0	9 ± 3.1	11 ± 1.7
10000.0	21 ± 3.5	13 ± 0.3	7 ± 2.3	7 ± 1.0	13 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	216 ± 8.2	375 ± 4.9			
Positive Control ⁴			189 ± 7.5	271 ± 15.5	293 ± 11.9

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	18 ± 1.0
100.0	6 ± 0.3
333.3	5 ± 0.3
1000.0	5 ± 1.2
3333.3	4 ± 1.0
10000.0	9 ± 0.0
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	315 ± 3.8

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 1% Hamster S9
Vehicle Control ¹	6 ± 0.9	13 ± 3.0	8 ± 3.2	13 ± 2.6	6 ± 0.3
100.0	8 ± 2.1	10 ± 0.9	6 ± 2.0	12 ± 2.0	18 ± 3.2
333.3	7 ± 0.7	10 ± 1.8	6 ± 0.3	17 ± 2.0	17 ± 0.9
1000.0	6 ± 1.2	8 ± 1.2	5 ± 1.2	16 ± 2.4	15 ± 2.6
3333.3	9 ± 1.9	7 ± 0.7	9 ± 2.9	13 ± 3.2	15 ± 0.3
10000.0	6 ± 1.8	9 ± 1.7	7 ± 0.6	10 ± 3.0	16 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			251 ± 18.4	311 ± 10.5	113 ± 6.2
Positive Control ⁵	59 ± 2.0	63 ± 7.8			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 1.5
100.0	8 ± 0.7
333.3	10 ± 0.9
1000.0	10 ± 1.2
3333.3	10 ± 3.2
10000.0	10 ± 1.5
Trial Summary	Negative
Positive Control ⁴	348 ± 4.0
Positive Control ⁵	

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Test Compound: Sodium phosphate, dibasic
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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 ± 0.9	15 ± 1.7	24 ± 3.5	18 ± 1.8	32 ± 3.2
100.0	29 ± 2.1	15 ± 3.1	21 ± 3.3	26 ± 5.5	38 ± 5.5
333.3	20 ± 2.0	17 ± 2.0	17 ± 1.2	26 ± 3.5	30 ± 3.3
1000.0	36 ± 1.7	14 ± 0.7	17 ± 1.7	20 ± 0.6	35 ± 1.7
3333.3	20 ± 2.6	12 ± 0.9	24 ± 3.5	21 ± 5.4	35 ± 2.1
10000.0	29 ± 9.2	15 ± 0.9	26 ± 2.9	17 ± 1.2	30 ± 4.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			180 ± 10.4	320 ± 18.8	265 ± 3.8
Positive Control ⁶	504 ± 20.3	498 ± 19.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	18 ± 3.2
100.0	20 ± 0.9
333.3	17 ± 2.2
1000.0	22 ± 1.7
3333.3	23 ± 7.3
10000.0	20 ± 3.2
Trial Summary	Negative
Positive Control ³	864 ± 46.7
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: Water

2: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****