

Experiment Number: 839670

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Potassium chloride

CAS Number: 7447-40-7

Date Report Requested: 09/16/2018

Time Report Requested: 00:07:10

NTP Study Number:

839670

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	131 ± 9.3	160 ± 3.5	195 ± 13.8	121 ± 7.2	231 ± 5.2
100.0	126 ± 4.6	164 ± 9.6	197 ± 13.1	128 ± 4.4	224 ± 7.5
333.0	125 ± 5.2	147 ± 6.1	206 ± 5.5	134 ± 7.0	186 ± 23.1
1000.0	131 ± 7.0	166 ± 2.2	219 ± 6.1	115 ± 4.0	189 ± 23.4
3333.0	125 ± 3.0	159 ± 0.7	204 ± 3.6	119 ± 8.7	193 ± 3.2
10000.0	116 ± 5.9	Toxic	194 ± 4.5	103 ± 1.8	187 ± 11.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1811 ± 92.3	2143 ± 52.4	1637 ± 192.9
Positive Control ³	1539 ± 138.1	1707 ± 21.1			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	164 ± 12.1
100.0	201 ± 9.3
333.0	199 ± 14.1
1000.0	199 ± 11.4
3333.0	183 ± 13.9
10000.0	181 ± 20.9
Trial Summary	Negative
Positive Control ²	2583 ± 115.7
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	17 ± 2.6	18 ± 1.2	33 ± 2.2	20 ± 1.5	31 ± 2.9
100.0	19 ± 0.3	19 ± 2.1	28 ± 6.1	24 ± 3.2	36 ± 0.3
333.0	22 ± 1.5	19 ± 0.6	32 ± 2.1	21 ± 0.3	32 ± 1.9
1000.0	18 ± 2.4	15 ± 1.5	30 ± 2.7	15 ± 2.9	31 ± 1.5
3333.0	18 ± 1.3	17 ± 3.0	31 ± 4.9	18 ± 2.3	27 ± 2.4
10000.0	14 ± 3.1	14 ± 2.1	22 ± 4.3	18 ± 2.0	19 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			256 ± 6.6	260 ± 9.3	303 ± 30.2
Positive Control ³	1014 ± 52.4	1224 ± 75.1			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	17 ± 3.0
100.0	20 ± 2.3
333.0	17 ± 2.0
1000.0	22 ± 1.5
3333.0	18 ± 1.3
10000.0	20 ± 4.5
Trial Summary	Negative
Positive Control ⁴	298 ± 12.2
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	11 ± 1.8	9 ± 0.9	12 ± 0.9	13 ± 1.0	15 ± 1.0
100.0	7 ± 2.1	8 ± 1.5	14 ± 2.8	18 ± 2.7	12 ± 1.2
333.0	10 ± 0.6	11 ± 2.3	16 ± 1.7	16 ± 2.9	17 ± 1.5
1000.0	8 ± 0.9	11 ± 1.2	14 ± 1.8	14 ± 1.3	17 ± 1.7
3333.0	9 ± 2.1	10 ± 1.8	9 ± 0.3	15 ± 2.4	16 ± 2.8
10000.0	Toxic	Toxic	9 ± 1.2	15 ± 1.3	13 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			220 ± 51.8	500 ± 11.3	153 ± 12.2
Positive Control ⁵	395 ± 148.7	888 ± 239.7			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	12 ± 2.7
100.0	12 ± 3.8
333.0	15 ± 2.3
1000.0	12 ± 1.5
3333.0	12 ± 2.4
10000.0	11 ± 1.5
Trial Summary	Negative
Positive Control ⁴	184 ± 42.5
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	24 ± 0.7	19 ± 4.6	18 ± 2.7	19 ± 3.0	18 ± 1.5
100.0	21 ± 2.6	17 ± 0.9	20 ± 5.0	17 ± 1.8	20 ± 1.5
333.0	20 ± 0.9	17 ± 3.2	15 ± 2.8	15 ± 1.9	14 ± 1.8
1000.0	18 ± 1.5	15 ± 3.2	14 ± 1.5	20 ± 1.2	17 ± 1.5
3333.0	17 ± 1.5	18 ± 1.5	19 ± 2.4	17 ± 2.1	16 ± 3.0
10000.0	16 ± 2.9	14 ± 3.0	19 ± 1.9	18 ± 2.8	16 ± 3.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1421 ± 127.8	1321 ± 38.8	1318 ± 49.2
Positive Control ⁶	154 ± 7.2	259 ± 10.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	26 ± 2.7
100.0	34 ± 1.2
333.0	18 ± 0.7
1000.0	18 ± 2.2
3333.0	24 ± 1.5
10000.0	19 ± 0.3
Trial Summary	Negative
Positive Control ²	1322 ± 66.6
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 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****