

Experiment Number: 560173

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

**G06: Ames Summary Data**

Test Compound: **Potassium chloride**

CAS Number: **7447-40-7**

Date Report Requested: **09/13/2018**

Time Report Requested: **22:33:14**

**NTP Study Number:**

560173

**Study Result:**

Negative

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**Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	115 ± 5.7	115 ± 8.3	106 ± 5.2	113 ± 2.4	121 ± 6.9
100.0	133 ± 3.4	125 ± 8.7	142 ± 2.2	123 ± 7.2	103 ± 3.8
333.3	135 ± 5.0	111 ± 9.6	111 ± 12.2	103 ± 4.1	113 ± 8.1
1000.0	133 ± 1.5	105 ± 6.5	137 ± 6.2	102 ± 6.4	120 ± 15.1
3333.3	134 ± 3.7	115 ± 5.8	126 ± 9.5	104 ± 6.2	104 ± 6.7
10000.0	121 ± 2.3	120 ± 6.5	122 ± 8.3	96 ± 9.6	105 ± 7.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	457 ± 5.0	483 ± 7.2			
Positive Control <sup>3</sup>			765 ± 59.6	1075 ± 30.0	1380 ± 36.4

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	116 ± 9.8
100.0	104 ± 5.7
333.3	106 ± 2.4
1000.0	88 ± 7.6
3333.3	110 ± 10.6
10000.0	118 ± 12.5
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	1119 ± 119.8

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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 <sup>1</sup>	35 ± 2.5	31 ± 0.7	14 ± 3.8	11 ± 1.8	15 ± 2.5
100.0	43 ± 1.0	27 ± 0.9	14 ± 2.9	12 ± 2.5	18 ± 0.7
333.3	33 ± 2.7	28 ± 4.5	17 ± 1.8	10 ± 0.6	18 ± 3.5
1000.0	44 ± 4.4	33 ± 1.2	17 ± 2.4	13 ± 1.5	15 ± 1.2
3333.3	46 ± 3.3	30 ± 5.5	10 ± 3.0	11 ± 1.5	12 ± 4.6
10000.0	39 ± 3.2	32 ± 3.5	14 ± 1.9	10 ± 2.2	12 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	376 ± 5.7	412 ± 9.4			
Positive Control <sup>4</sup>			321 ± 44.2	314 ± 14.9	306 ± 6.4

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	12 ± 2.3
100.0	11 ± 1.7
333.3	11 ± 2.8
1000.0	13 ± 0.7
3333.3	13 ± 2.6
10000.0	10 ± 0.9
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	257 ± 13.8

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## G06: Ames Summary Data

Test Compound: Potassium chloride

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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 <sup>1</sup>	16 ± 2.0	9 ± 1.3	28 ± 3.8	23 ± 2.1	41 ± 0.9
100.0	17 ± 4.9	9 ± 1.5	40 ± 3.5	13 ± 2.5	24 ± 3.8
333.3	15 ± 3.1	9 ± 1.5	33 ± 2.5	14 ± 1.0	23 ± 4.9
1000.0	21 ± 4.6	10 ± 2.2	39 ± 3.5	18 ± 4.7	25 ± 2.6
3333.3	25 ± 3.7	9 ± 2.0	36 ± 2.7	19 ± 0.7	29 ± 1.2
10000.0	19 ± 3.1	8 ± 1.0	33 ± 1.8	13 ± 2.1	27 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			319 ± 28.4	495 ± 52.6	635 ± 17.2
Positive Control <sup>5</sup>	308 ± 8.0	329 ± 159.1			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	18 ± 3.5
100.0	13 ± 2.6
333.3	20 ± 4.4
1000.0	23 ± 3.4
3333.3	15 ± 3.0
10000.0	16 ± 1.5
Trial Summary	Negative
Positive Control <sup>4</sup>	459 ± 52.4
Positive Control <sup>5</sup>	

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**Strain: TA98**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	46 ± 2.4	35 ± 4.7	60 ± 5.0	31 ± 5.2	53 ± 3.4
100.0	48 ± 9.1	35 ± 2.8	60 ± 5.0	37 ± 1.3	56 ± 7.9
333.3	45 ± 4.0	29 ± 6.1	63 ± 0.7	30 ± 2.2	48 ± 4.7
1000.0	46 ± 5.4	35 ± 6.7	60 ± 3.2	34 ± 3.4	54 ± 6.4
3333.3	48 ± 1.5	30 ± 3.4	61 ± 2.4	33 ± 4.1	44 ± 2.3
10000.0	47 ± 5.0	25 ± 3.5	64 ± 4.2	39 ± 5.3	48 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			509 ± 20.5	574 ± 22.3	1170 ± 9.5
Positive Control <sup>6</sup>	850 ± 18.0	691 ± 10.1			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	49 ± 5.6
100.0	32 ± 4.5
333.3	38 ± 5.2
1000.0	39 ± 4.9
3333.3	35 ± 7.3
10000.0	33 ± 4.3
Trial Summary	Negative
Positive Control <sup>3</sup>	570 ± 57.5
Positive Control <sup>6</sup>	

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**LEGEND**

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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 \*\***