

Experiment Number: 429799

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Lithium chloride

CAS Number: 7447-41-8

Date Report Requested: 09/15/2018

Time Report Requested: 06:34:37

NTP Study Number:

429799

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	91 ± 4.5	95 ± 3.3	92 ± 3.3	109 ± 4.9	87 ± 3.0
100.0	100 ± 6.7	137 ± 14.7	112 ± 22.6	97 ± 7.0	105 ± 12.4
333.0	86 ± 10.7	128 ± 3.5	112 ± 12.5	97 ± 4.2	85 ± 1.5
1000.0	93 ± 0.7	127 ± 9.4	112 ± 12.3	104 ± 6.8	90 ± 3.5
3333.0	92 ± 2.9	126 ± 5.9	90 ± 6.8	109 ± 4.1	101 ± 5.8
10000.0	83 ± 6.2	70 ± 4.7	78 ± 2.1	100 ± 3.1	81 ± 5.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					2016 ± 53.3
Positive Control ³			1431 ± 43.7	1846 ± 21.2	
Positive Control ⁴	1484 ± 26.7	1971 ± 26.4			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	143 ± 12.3
100.0	147 ± 6.7
333.0	130 ± 4.2
1000.0	138 ± 6.9
3333.0	145 ± 7.8
10000.0	92 ± 6.8
Trial Summary	Negative
Positive Control ²	2144 ± 24.1
Positive Control ³	
Positive Control ⁴	

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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	18 ± 2.5	19 ± 3.5	7 ± 1.8	13 ± 0.9	9 ± 1.7
100.0	16 ± 4.0	21 ± 3.2	9 ± 2.5	11 ± 1.7	9 ± 2.5
333.0	15 ± 0.9	17 ± 3.4	3 ± 1.2	7 ± 0.9	6 ± 1.7
1000.0	13 ± 3.2	17 ± 1.3	13 ± 1.2	10 ± 2.2	5 ± 0.6
3333.0	10 ± 0.9	21 ± 1.5	6 ± 0.3	10 ± 1.7	11 ± 1.5
10000.0	11 ± 0.3	14 ± 3.0	7 ± 1.5	7 ± 0.6	7 ± 2.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					71 ± 1.8
Positive Control ³			74 ± 11.7	145 ± 10.9	
Positive Control ⁴	1175 ± 14.5	1311 ± 33.0			

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Test Compound: Lithium chloride
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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 2.0
100.0	8 ± 1.0
333.0	11 ± 1.8
1000.0	11 ± 2.3
3333.0	12 ± 0.9
10000.0	10 ± 2.9
Trial Summary	Negative
Positive Control ²	165 ± 8.1
Positive Control ³	
Positive Control ⁴	

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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	7 ± 1.7	6 ± 0.7	9 ± 1.2	8 ± 0.3	6 ± 0.7
100.0	6 ± 1.7	7 ± 0.6	5 ± 1.0	5 ± 1.5	6 ± 1.5
333.0	7 ± 0.6	9 ± 1.2	7 ± 1.2	8 ± 1.9	6 ± 1.3
1000.0	8 ± 1.3	9 ± 1.3	7 ± 0.0	8 ± 2.0	7 ± 2.2
3333.0	9 ± 1.2	8 ± 1.8	8 ± 1.2	8 ± 0.9	6 ± 0.7
10000.0	8 ± 3.7	9 ± 0.9	6 ± 1.2	6 ± 0.9	7 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					258 ± 8.8
Positive Control ³			145 ± 7.3	190 ± 11.3	
Positive Control ⁵	371 ± 81.8	651 ± 183.1 ^s			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.9
100.0	7 ± 0.6
333.0	8 ± 1.5
1000.0	12 ± 2.5
3333.0	8 ± 1.0
10000.0	4 ± 2.0
Trial Summary	Negative
Positive Control ²	210 ± 19.7
Positive Control ³	
Positive Control ⁵	

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Test Compound: Lithium chloride

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Date Report Requested: 09/15/2018

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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	14 ± 0.3	22 ± 1.5	25 ± 0.9	26 ± 3.8	26 ± 0.6
100.0	15 ± 2.7	25 ± 1.5	19 ± 2.9	26 ± 2.6	20 ± 2.3
333.0	20 ± 2.4	22 ± 2.3	19 ± 2.8	26 ± 1.7	22 ± 2.1
1000.0	15 ± 1.5	22 ± 0.3	21 ± 0.9	28 ± 2.0	26 ± 4.9
3333.0	18 ± 1.7	23 ± 3.8	20 ± 3.6	23 ± 1.5	23 ± 3.2
10000.0	17 ± 2.7 ^s	13 ± 1.0 ^s	13 ± 3.2 ^s	16 ± 2.0 ^s	18 ± 2.6 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1895 ± 38.4
Positive Control ³			981 ± 9.8	1496 ± 74.3	
Positive Control ⁶	1746 ± 55.7	1840 ± 46.7			

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Test Compound: Lithium chloride
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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	33 ± 7.7
100.0	26 ± 0.9
333.0	23 ± 2.5
1000.0	30 ± 4.4
3333.0	28 ± 2.3
10000.0	23 ± 1.8 ^s
Trial Summary	Negative
Positive Control ²	2128 ± 47.1
Positive Control ³	
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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****