

Experiment Number: 286441

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

G06: Ames Summary Data

Test Compound: **Cadmium chloride**

CAS Number: **10108-64-2**

Date Report Requested: **09/11/2018**

Time Report Requested: **15:36:48**

NTP Study Number:

286441

Study Result:

Negative

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Test Compound: Cadmium chloride
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Date Report Requested: 09/11/2018

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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	80 ± 4.9	142 ± 19.7	113 ± 6.8	148 ± 1.3	140 ± 0.9
10.0	132 ± 3.6	142 ± 0.3	121 ± 7.2		126 ± 10.3
33.0	128 ± 2.8	143 ± 2.0	110 ± 4.0	135 ± 9.5	129 ± 2.9
100.0	122 ± 16.7	153 ± 3.8	122 ± 4.2	133 ± 3.2	123 ± 11.1
333.0	125 ± 2.3	145 ± 6.0	109 ± 5.2	148 ± 4.7	118 ± 11.0
1000.0	67 ± 0.3 ^s	113 ± 6.2 ^s	116 ± 4.5	103 ± 2.7	97 ± 3.0
2000.0				60 ± 4.7	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					819 ± 15.0
Positive Control ³			1401 ± 34.5	1331 ± 45.7	
Positive Control ⁴	1501 ± 16.2	2770 ± 66.1			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	135 ± 11.1	132 ± 4.4
10.0		
33.0	157 ± 1.8	147 ± 6.0
100.0	141 ± 8.1	142 ± 4.4
333.0	138 ± 10.7	142 ± 2.1
1000.0	127 ± 6.1	85 ± 1.8
2000.0	65 ± 5.6	58 ± 3.8
Trial Summary	Negative	Negative
Positive Control ²	122 ± 7.2	2226 ± 31.7
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	26 ± 2.6	41 ± 1.8	11 ± 2.6	8 ± 0.9	12 ± 2.1
10.0	26 ± 3.9	31 ± 8.0	12 ± 0.9		14 ± 3.3
33.0	25 ± 1.2	30 ± 1.0	9 ± 3.1	12 ± 1.2	11 ± 1.2
100.0	23 ± 3.8	35 ± 6.9	10 ± 0.0	14 ± 4.0	9 ± 2.0
333.0	23 ± 0.6	31 ± 3.5	10 ± 2.4	13 ± 1.8	10 ± 0.7
1000.0	12 ± 1.8 ^s	20 ± 2.4	9 ± 2.0	13 ± 1.9	6 ± 0.3
2000.0				7 ± 1.0	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					62 ± 7.8
Positive Control ³			67 ± 2.6	110 ± 10.3	
Positive Control ⁴	1071 ± 42.5	2280 ± 63.7			

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Test Compound: Cadmium chloride

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 2.5	13 ± 3.2
10.0		
33.0	10 ± 0.6	9 ± 1.0
100.0	11 ± 3.5	11 ± 0.3
333.0	14 ± 1.3	11 ± 2.0
1000.0	8 ± 2.5	6 ± 1.2
2000.0	4 ± 1.2	4 ± 1.5
Trial Summary	Negative	Negative
Positive Control ²	10 ± 0.6	139 ± 8.8
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	6 ± 2.1	5 ± 2.1	10 ± 1.2	8 ± 1.5	10 ± 0.9
10.0	4 ± 0.3	5 ± 2.1	7 ± 0.6		8 ± 0.3
33.0	9 ± 1.8	9 ± 1.2	8 ± 0.3	7 ± 0.7	8 ± 1.7
100.0	7 ± 1.2	9 ± 1.5	11 ± 0.9	6 ± 0.7	10 ± 1.3
333.0	8 ± 0.6	8 ± 1.7	8 ± 2.0	7 ± 0.3	7 ± 2.0
1000.0	7 ± 1.5 ^s	7 ± 2.0	8 ± 2.0	7 ± 1.2	5 ± 0.6
2000.0				7 ± 1.9	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					64 ± 3.9
Positive Control ³			112 ± 6.2	123 ± 9.6	
Positive Control ⁵	310 ± 28.0	342 ± 41.9			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 0.3	7 ± 1.0
10.0		
33.0	9 ± 0.7	7 ± 1.2
100.0	7 ± 0.6	9 ± 0.9
333.0	10 ± 2.5	10 ± 2.0
1000.0	6 ± 0.9	8 ± 0.9
2000.0	6 ± 2.3	4 ± 0.3
Trial Summary	Negative	Negative
Positive Control ²	4 ± 1.7	233 ± 10.3
Positive Control ³		
Positive Control ⁵		

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Test Compound: Cadmium chloride

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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	15 ± 1.8	27 ± 2.6	26 ± 4.6	34 ± 2.6	32 ± 1.8
10.0	17 ± 2.1	26 ± 2.6	23 ± 4.0		27 ± 0.9
33.0	26 ± 4.2	24 ± 2.6	28 ± 1.0	26 ± 2.3	30 ± 3.5
100.0	24 ± 2.3	25 ± 3.8	28 ± 4.4	21 ± 1.8	29 ± 2.4
333.0	19 ± 0.3	25 ± 0.3	28 ± 2.5	27 ± 3.0	25 ± 3.3
1000.0	10 ± 0.0 ^s	23 ± 3.7 ^s	21 ± 2.7	22 ± 1.3	23 ± 1.7
2000.0				16 ± 1.0	
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²					528 ± 17.2
Positive Control ³			848 ± 83.8	1240 ± 31.3	
Positive Control ⁶	1036 ± 46.8	1779 ± 18.8			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	30 ± 0.7	33 ± 3.5
10.0		
33.0	34 ± 5.8	23 ± 0.5
100.0	32 ± 1.7	34 ± 4.0
333.0	32 ± 2.0	27 ± 2.5
1000.0	26 ± 4.1	20 ± 4.2
2000.0	14 ± 2.6	13 ± 2.3
Trial Summary	Negative	Negative
Positive Control ²	23 ± 2.5	2012 ± 136.6
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 ****