

Experiment Number: 862036

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

G06: Ames Summary Data

Test Compound: **Mercuric chloride**

CAS Number: **7487-94-7**

Date Report Requested: **09/16/2018**

Time Report Requested: **13:57:48**

NTP Study Number:

862036

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% Rat S9
Vehicle Control ¹	136 ± 6.8	144 ± 2.9	118 ± 8.1	126 ± 3.7	150 ± 4.1
0.003	127 ± 6.6	123 ± 1.9			
0.01	109 ± 12.3	140 ± 6.7			
0.03	125 ± 2.2	137 ± 3.5			
0.1	131 ± 4.7	145 ± 10.1			
0.3	131 ± 0.9	120 ± 9.6 ^s	135 ± 7.2	141 ± 9.4	130 ± 5.7
1.0			118 ± 6.1	145 ± 6.1	149 ± 12.4
3.3			130 ± 2.9	134 ± 3.7	148 ± 7.2
10.0			156 ± 10.9	139 ± 2.9	145 ± 8.8
33.0			Toxic	151 ± 8.4	171 ± 9.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³			103 ± 2.8	650 ± 29.5	977 ± 41.3
Positive Control ⁴	1089 ± 18.3	1027 ± 14.8			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	118 ± 8.7	148 ± 2.0
0.003		
0.01		
0.03		
0.1		
0.3	113 ± 8.8	144 ± 8.8
1.0	122 ± 9.5	141 ± 2.7
3.3	105 ± 6.4	151 ± 9.0
10.0	112 ± 10.3	150 ± 6.6
33.0	Toxic	190 ± 6.7 ^s
Trial Summary	Negative	Negative
Positive Control ²	1024 ± 47.1	1561 ± 23.2
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% Rat S9
Vehicle Control ¹	34 ± 4.4	32 ± 3.2	13 ± 2.0	16 ± 1.2	9 ± 0.3
0.003	34 ± 3.8	29 ± 3.5			
0.01	24 ± 2.2	22 ± 2.7			
0.03	28 ± 3.8	29 ± 1.5			
0.1	33 ± 2.9	29 ± 3.2			
0.3	18 ± 0.6 ^s	21 ± 4.7 ^s	13 ± 1.2	14 ± 2.0	17 ± 2.4
1.0			14 ± 1.8	15 ± 1.5	14 ± 2.3
3.3			12 ± 1.9	20 ± 1.3	12 ± 2.3
10.0			20 ± 0.9	16 ± 2.1	14 ± 2.5
33.0			Toxic	13 ± 3.0	10 ± 3.2 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³			14 ± 2.1	75 ± 5.2	56 ± 8.6
Positive Control ⁴	905 ± 50.1	855 ± 12.8			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	13 ± 1.2	17 ± 1.2
0.003		
0.01		
0.03		
0.1		
0.3	13 ± 0.3	9 ± 1.9
1.0	15 ± 1.8	9 ± 1.2
3.3	15 ± 1.5	13 ± 2.3
10.0	10 ± 0.3	12 ± 3.6
33.0	12 ± 0.7	8 ± 0.9 ^s
Trial Summary	Negative	Negative
Positive Control ²	87 ± 8.4	77 ± 3.5
Positive Control ³		
Positive Control ⁴		

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Test Compound: Mercuric chloride

CAS Number: 7487-94-7

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	5 ± 1.2	8 ± 1.9	8 ± 2.0	7 ± 1.8	10 ± 2.3
0.003	6 ± 1.3	9 ± 0.7			
0.01	7 ± 0.3	6 ± 3.1			
0.03	6 ± 1.7	10 ± 0.7			
0.1	5 ± 1.5	9 ± 1.2			
0.3	8 ± 0.9	Toxic	7 ± 1.2	9 ± 0.9	11 ± 1.5
1.0			7 ± 2.0	9 ± 0.9	13 ± 3.1
3.3			9 ± 1.2	10 ± 0.3	12 ± 2.4
10.0			9 ± 1.5	9 ± 2.3	10 ± 0.6
33.0			Toxic	7 ± 2.1	9 ± 0.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³			7 ± 1.2	63 ± 10.1	77 ± 3.8
Positive Control ⁵	332 ± 104.8	197 ± 16.6			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	4 ± 0.6	11 ± 2.0
0.003		
0.01		
0.03		
0.1		
0.3	6 ± 1.7	9 ± 1.7
1.0	6 ± 2.1	9 ± 1.2
3.3	6 ± 1.5	7 ± 0.7
10.0	8 ± 0.6	9 ± 1.9
33.0	Toxic	12 ± 1.5 ^s
Trial Summary	Negative	Negative
Positive Control ²	87 ± 1.0	133 ± 7.8
Positive Control ³		
Positive Control ⁵		

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G06: Ames Summary Data

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CAS Number: 7487-94-7

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	53 ± 5.0	20 ± 1.2	22 ± 1.5	60 ± 6.2	28 ± 0.6
0.003	47 ± 3.0	21 ± 1.7	23 ± 5.8		
0.01	53 ± 3.2	17 ± 2.3	20 ± 0.6		
0.03	54 ± 2.9	23 ± 4.0	20 ± 2.1		
0.1	55 ± 1.8	21 ± 1.5	27 ± 1.8		
0.3	19 ± 3.6 ^s	14 ± 0.6 ^s	Toxic	44 ± 4.2	25 ± 3.2
1.0				46 ± 3.8	24 ± 1.9
3.3				49 ± 3.2	22 ± 3.5
10.0				43 ± 5.6	25 ± 4.2
33.0				Toxic	21 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				68 ± 8.4	434 ± 22.6
Positive Control ⁶	1870 ± 24.6	1298 ± 54.5	1215 ± 50.3		

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Test Compound: Mercuric chloride

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Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	31 ± 0.3	71 ± 3.7	32 ± 0.9	19 ± 1.2
0.003				
0.01				
0.03				
0.1				
0.3	29 ± 2.4	62 ± 8.3	28 ± 3.0	30 ± 0.9
1.0	28 ± 3.3	58 ± 8.2	31 ± 3.0	25 ± 1.2
3.3	30 ± 2.9	67 ± 2.9	30 ± 0.9	26 ± 5.2
10.0	26 ± 2.6	58 ± 2.6	27 ± 1.5	20 ± 2.8
33.0	21 ± 4.5 ^s	Toxic	24 ± 2.3	15 ± 0.6 ^s
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²		774 ± 36.7	877 ± 6.0	1418 ± 72.8
Positive Control ³	758 ± 43.0			
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: Dimethyl Sulfoxide

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 ****