

Experiment Number: 399829

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

G06: Ames Summary Data

Test Compound: **Phenylmercuric acetate**

CAS Number: 62-38-4

Date Report Requested: 09/14/2018

Time Report Requested: 16:30:12

NTP Study Number:

399829

Study Result:

Negative

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Mutagenicity

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Test Compound: Phenylmercuric acetate

CAS Number: 62-38-4

Date Report Requested: 09/14/2018

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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	85 ± 3.7	150 ± 0.3	110 ± 9.9	128 ± 3.5	99 ± 13.0
0.003		136 ± 19.3			
0.01	110 ± 7.2	126 ± 9.2			
0.03	106 ± 4.2	136 ± 11.6			
0.1	102 ± 10.8	136 ± 7.4			
0.3	Toxic	76 ± 44.2 ^s	95 ± 1.9	154 ± 4.7	112 ± 7.5
1.0	Toxic		95 ± 4.1	143 ± 11.7	104 ± 12.5
3.0			85 ± 5.2	139 ± 16.4	85 ± 3.1
10.0			89 ± 12.1	114 ± 13.5	77 ± 2.6
33.0			42 ± 6.9 ^s	25 ± 3.7 ^s	59 ± 6.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1938 ± 66.0	820 ± 32.1	2649 ± 40.4
Positive Control ³	233 ± 6.2	507 ± 0.3			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	133 ± 5.0
0.003	
0.01	
0.03	
0.1	
0.3	131 ± 13.1
1.0	120 ± 8.4
3.0	126 ± 1.5
10.0	119 ± 6.5
33.0	Toxic
Trial Summary	Negative
Positive Control ²	1901 ± 61.3
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	10 ± 2.5	24 ± 1.5	9 ± 2.3	10 ± 2.2	5 ± 0.0
0.003		20 ± 3.1			
0.01	5 ± 1.2	18 ± 6.3			
0.03	10 ± 1.2	20 ± 4.4			
0.1	6 ± 0.6	15 ± 5.3			
0.3	2 ± 0.6 ^s	8 ± 0.7	14 ± 0.3	9 ± 1.5	8 ± 0.6
1.0	Toxic		6 ± 1.5	11 ± 2.0	6 ± 1.5
3.0			9 ± 1.5	9 ± 2.6	6 ± 1.5
10.0			7 ± 1.2	7 ± 2.3	7 ± 1.3
33.0			4 ± 1.5	0 ± 0.0 ^s	0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	155 ± 2.7	407 ± 1.2			
Positive Control ⁴			542 ± 39.0	506 ± 17.9	530 ± 29.1

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 2.0
0.003	
0.01	
0.03	
0.1	
0.3	8 ± 1.2
1.0	11 ± 1.9
3.0	9 ± 2.9
10.0	8 ± 3.0
33.0	3 ± 0.7 ^s
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	464 ± 22.8

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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	3 ± 0.6	6 ± 1.0	4 ± 0.6	5 ± 0.7	5 ± 1.2
0.003		10 ± 1.8			
0.01	6 ± 1.9	4 ± 0.6			
0.03	4 ± 0.6	6 ± 1.2			
0.1	5 ± 0.7	6 ± 1.8			
0.3	1 ± 1.0 ^s	0 ± 0.0 ^s	6 ± 1.5	7 ± 0.7	4 ± 0.3
1.0	Toxic		5 ± 0.6	5 ± 1.2	8 ± 2.3
3.0			6 ± 1.3	6 ± 0.9	6 ± 1.8
10.0			6 ± 2.2	4 ± 0.6	4 ± 0.3
33.0			3 ± 0.0 ^s	0 ± 0.0 ^s	1 ± 0.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			231 ± 3.2	356 ± 8.3	89 ± 8.9
Positive Control ⁵	216 ± 54.9	106 ± 16.8			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.9
0.003	
0.01	
0.03	
0.1	
0.3	6 ± 1.5
1.0	8 ± 2.1
3.0	6 ± 1.0
10.0	7 ± 1.0
33.0	2 ± 0.9 ^s
Trial Summary	Negative
Positive Control ⁴	479 ± 40.9
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	25 ± 4.2	22 ± 2.1	25 ± 2.6	29 ± 2.3	28 ± 4.3
0.003		16 ± 0.9			
0.01	29 ± 6.4	17 ± 1.8			
0.03	16 ± 1.0	17 ± 1.8			
0.1	20 ± 3.2	14 ± 1.2			
0.3	12 ± 6.0	17 ± 3.8	31 ± 4.8	26 ± 1.2	32 ± 0.6
1.0	Toxic		28 ± 1.2	31 ± 1.7	25 ± 2.3
3.0			25 ± 2.3	26 ± 0.6	31 ± 2.8
10.0			26 ± 3.5	22 ± 1.2	24 ± 3.0
33.0			7 ± 4.3 ^s	5 ± 1.5 ^s	29 ± 3.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1465 ± 18.5	612 ± 9.1	2152 ± 45.1
Positive Control ⁶	619 ± 20.5	943 ± 78.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	28 ± 2.1
0.003	
0.01	
0.03	
0.1	
0.3	21 ± 2.0
1.0	29 ± 2.0
3.0	30 ± 2.5
10.0	23 ± 4.2
33.0	7 ± 1.0 ^s
Trial Summary	Negative
Positive Control ²	1551 ± 162.2
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: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****