

Experiment Number: 364890

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

G06: Ames Summary Data

Test Compound: **Phenylmercuric acetate**

CAS Number: 62-38-4

Date Report Requested: 09/13/2018

Time Report Requested: 20:56:26

NTP Study Number:

364890

Study Result:

Equivocal

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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	86 ± 4.9	85 ± 8.7	115 ± 7.4	144 ± 4.4	104 ± 11.1
0.003	84 ± 2.5	78 ± 3.4			
0.01	87 ± 2.7	81 ± 2.6			
0.033	94 ± 2.1	88 ± 2.7			
0.1	83 ± 2.5	80 ± 6.0			
0.33	Toxic	Toxic	136 ± 2.2	177 ± 1.5	151 ± 9.2
1.0			162 ± 5.3	210 ± 5.6	139 ± 14.7
3.3			129 ± 11.2	169 ± 4.3	135 ± 6.1
10.0			222 ± 4.0	205 ± 2.6	158 ± 10.6
33.0			108 ± 2.4	138 ± 1.7	154 ± 9.9
Trial Summary	Negative	Negative	Equivocal	Equivocal	Equivocal
Positive Control ²			853 ± 24.9	2093 ± 46.2	1638 ± 96.5
Positive Control ³	259 ± 7.5	422 ± 50.3			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	128 ± 14.6
0.003	
0.01	
0.033	
0.1	
0.33	178 ± 8.8
1.0	165 ± 6.5
3.3	157 ± 5.2
10.0	183 ± 6.1
33.0	179 ± 5.8
Trial Summary	Equivocal
Positive Control ²	1410 ± 109.5
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	3 ± 2.0	8 ± 1.7	4 ± 2.3	5 ± 1.5	5 ± 1.7
0.001		14 ± 2.0			
0.003	6 ± 0.7	17 ± 2.3			
0.01	3 ± 0.7	10 ± 1.5			
0.03	3 ± 1.5				
0.033		11 ± 1.8			
0.1	6 ± 1.0	16 ± 2.0			
0.3	Toxic		5 ± 0.0		
0.33				7 ± 1.5	11 ± 1.7
1.0			7 ± 0.5	8 ± 2.1	10 ± 0.3
3.3			10 ± 0.9	6 ± 3.5	9 ± 1.2
10.0			7 ± 0.3	9 ± 0.3	10 ± 1.2
33.0			9 ± 1.5	6 ± 2.4	9 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				43 ± 2.4	73 ± 20.6
Positive Control ⁴			46 ± 11.9		
Positive Control ³	80 ± 9.2	76 ± 4.7			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	5 ± 0.9
0.001	
0.003	
0.01	
0.03	
0.033	
0.1	
0.3	
0.33	7 ± 2.6
1.0	8 ± 1.7
3.3	6 ± 2.2
10.0	12 ± 2.1
33.0	8 ± 1.7
Trial Summary	Negative
Positive Control ²	54 ± 7.8
Positive Control ⁴	
Positive Control ³	

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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	2 ± 1.2	3 ± 0.3	5 ± 1.3	7 ± 2.9	3 ± 1.0
0.001		4 ± 0.9			
0.003	3 ± 0.7	5 ± 0.6			
0.01	2 ± 0.7	4 ± 0.7			
0.033	2 ± 0.7	5 ± 2.3			
0.1	Toxic	Toxic			
0.33	Toxic		11 ± 0.6	19 ± 4.3	12 ± 2.0
1.0			10 ± 1.9	17 ± 5.0	15 ± 3.4
3.3			7 ± 0.6	13 ± 5.7	13 ± 2.6
10.0			8 ± 1.8	15 ± 5.7	18 ± 2.9
33.0			5 ± 0.3	12 ± 4.8	6 ± 0.9
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²			86 ± 4.7	202 ± 28.1	146 ± 21.4
Positive Control ⁵	122 ± 9.5	1173 ± 82.1			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 2.1
0.001	
0.003	
0.01	
0.033	
0.1	
0.33	11 ± 2.7
1.0	6 ± 2.6
3.3	8 ± 1.2
10.0	9 ± 2.5
33.0	5 ± 1.5
Trial Summary	Negative
Positive Control ²	116 ± 7.9
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	13 ± 1.3	14 ± 3.3	18 ± 3.2	23 ± 3.5	17 ± 4.0
0.003	19 ± 3.0	20 ± 2.3			
0.01	16 ± 1.9	17 ± 0.9			
0.033	20 ± 3.0	21 ± 3.2			
0.1	17 ± 1.0	17 ± 1.8			
0.33	Toxic	Toxic	21 ± 1.5	24 ± 3.2	26 ± 2.0
1.0			22 ± 2.6	25 ± 1.7	28 ± 2.2
3.3			16 ± 3.2	18 ± 2.2	19 ± 1.2
10.0			24 ± 1.0	26 ± 2.7	31 ± 1.3
33.0			24 ± 1.3	26 ± 2.6	20 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			977 ± 47.2	846 ± 203.0	1698 ± 72.6
Positive Control ⁶	197 ± 7.2	173 ± 24.1			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	23 ± 4.5
0.003	
0.01	
0.033	
0.1	
0.33	31 ± 2.6
1.0	33 ± 3.9
3.3	23 ± 1.5
10.0	36 ± 3.3
33.0	23 ± 2.1
Trial Summary	Negative
Positive Control ²	963 ± 50.4
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: 3.3 ug/Plate Sodium Azide

4: 1.0 ug/Plate Sodium Azide

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****