

Experiment Number: 489431

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

G06: Ames Summary Data

Test Compound: **((o-Carboxyphenyl)thio)ethylmercury sodium salt**

CAS Number: 54-64-8

Date Report Requested: 09/11/2018

Time Report Requested: 22:59:30

NTP Study Number:

489431

Study Result:

Negative

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Test Type: Genetic Toxicology - Bacterial
MutagenicityTest Compound: ((o-Carboxyphenyl)thio)ethylmercury sodium salt
CAS Number: 54-64-8

Time Report Requested: 22:59:30

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	87 ± 3.8	100 ± 2.3	149 ± 5.4	99 ± 15.0	150 ± 3.8
0.001		94 ± 2.5	141 ± 5.1		
0.003		92 ± 0.9	152 ± 11.1		
0.01	99 ± 4.4	87 ± 7.5	145 ± 2.3		
0.03	92 ± 7.7	104 ± 10.2	147 ± 1.7		
0.1	95 ± 4.2	98 ± 9.8	138 ± 12.4	135 ± 3.0	128 ± 18.0
0.3	0 ± 0.0			130 ± 12.8	143 ± 14.5
1.0	0 ± 0.0			144 ± 8.2	145 ± 14.2
3.0				124 ± 13.9	
3.3					146 ± 7.8
10.0				116 ± 5.5	150 ± 13.9
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²				1961 ± 286.8	1940 ± 283.6
Positive Control ³	1126 ± 80.6	1034 ± 140.2	1305 ± 23.3		

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	144 ± 7.5	151 ± 20.5
0.001		
0.003		
0.01		
0.03		
0.1	116 ± 5.5	127 ± 5.8
0.3	114 ± 14.2	145 ± 10.8
1.0	134 ± 14.1	122 ± 21.5
3.0	96 ± 11.6	
3.3		126 ± 12.5
10.0	105 ± 19.1	138 ± 3.1
Trial Summary	Negative	Negative
Positive Control ²	2349 ± 53.9	2550 ± 299.1
Positive Control ³		

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	5 ± 1.2	16 ± 1.0	26 ± 3.0	5 ± 1.2	13 ± 2.2
0.001		10 ± 1.5	34 ± 2.0		
0.003		12 ± 1.7	29 ± 0.9		
0.01	5 ± 0.9	11 ± 1.7	28 ± 0.7		
0.03	4 ± 1.3	14 ± 2.6	29 ± 2.4		
0.1	4 ± 1.5	11 ± 1.2	28 ± 2.1	7 ± 2.4	10 ± 2.0
0.3	0 ± 0.0				13 ± 1.2
0.33				5 ± 1.2	
1.0	0 ± 0.0			7 ± 0.7	17 ± 3.6
3.0					
3.3				5 ± 1.0	14 ± 2.6
10.0				5 ± 2.0	15 ± 1.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴				67 ± 7.7	220 ± 13.0
Positive Control ³	815 ± 37.6	571 ± 16.0	816 ± 93.2		

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.2	21 ± 1.5
0.001		
0.003		
0.01		
0.03		
0.1	8 ± 1.7	12 ± 1.3
0.3	7 ± 0.6	18 ± 1.2
0.33		
1.0	7 ± 0.5	9 ± 1.2
3.0	3 ± 0.3	
3.3		12 ± 2.9
10.0	4 ± 1.5	11 ± 2.0
Trial Summary	Negative	Negative
Positive Control ⁴	133 ± 24.5	216 ± 11.6
Positive Control ³		

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	7 ± 2.3	7 ± 1.7	16 ± 0.9	15 ± 3.0	10 ± 2.9
0.001		7 ± 1.2	15 ± 0.6		
0.003		7 ± 0.6	14 ± 2.6		
0.01	4 ± 0.3	11 ± 2.6	17 ± 2.6		
0.03	6 ± 0.9	8 ± 0.9	17 ± 3.0		
0.1	6 ± 0.7	8 ± 1.2	15 ± 1.2	8 ± 1.3	11 ± 1.7
0.3	0 ± 0.0			5 ± 2.3	7 ± 0.9
1.0	0 ± 0.0			3 ± 0.6	11 ± 3.0
3.0				5 ± 1.2	
3.3					8 ± 0.9
10.0				6 ± 0.7	8 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴				136 ± 22.8	153 ± 9.8
Positive Control ⁵	1121 ± 64.8	154 ± 7.0	275 ± 84.8		

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 1.7	12 ± 4.1
0.001		
0.003		
0.01		
0.03		
0.1	5 ± 0.9	8 ± 1.8
0.3	5 ± 0.6	9 ± 2.3
1.0	3 ± 0.9	11 ± 1.5
3.0	3 ± 0.9	
3.3		9 ± 1.2
10.0	3 ± 1.2	6 ± 0.0
Trial Summary	Negative	Negative
Positive Control ⁴	152 ± 9.2	231 ± 45.4
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	15 ± 0.3	15 ± 1.7	23 ± 1.3	24 ± 2.9	17 ± 3.2
0.01	13 ± 1.3	16 ± 1.9			
0.03	13 ± 1.2	14 ± 3.1			
0.1	17 ± 3.3	15 ± 1.7	21 ± 2.2	22 ± 3.3	17 ± 1.5
0.3	15 ± 8.1	13 ± 1.9	21 ± 3.1	22 ± 1.5	18 ± 1.3
1.0	3 ± 0.7	14 ± 0.9	18 ± 2.3	21 ± 4.1	19 ± 3.8
3.0			21 ± 3.7		14 ± 1.2
3.3				25 ± 1.5	
10.0			20 ± 2.1	17 ± 0.3	18 ± 2.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1929 ± 78.9	1162 ± 175.6	930 ± 173.3
Positive Control ⁶	220 ± 11.4	292 ± 14.4			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	25 ± 2.5
0.01	
0.03	
0.1	23 ± 3.5
0.3	24 ± 0.9
1.0	22 ± 0.9
3.0	
3.3	30 ± 2.0
10.0	29 ± 1.0
Trial Summary	Negative
Positive Control ²	2121 ± 390.8
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: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

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

**** END OF REPORT ****