

Experiment Number: 001335

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

G06: Ames Summary Data

Test Compound: **Sodium mercaptobenzothiazole**

CAS Number: 2492-26-4

Date Report Requested: 09/13/2018

Time Report Requested: 23:36:32

NTP Study Number:

001335

Study Result:

Weakly Positive

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Test Compound: Sodium mercaptobenzothiazole
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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	121 ± 6.9	119 ± 7.3	85 ± 2.1	116 ± 5.5	98 ± 5.8
3.3		117 ± 5.2		113 ± 8.8	
10.0		105 ± 7.0		117 ± 1.2	
33.0	87 ± 5.8	122 ± 4.0	93 ± 6.5	109 ± 5.5	92 ± 2.3
100.0	84 ± 4.9	106 ± 4.4	63 ± 6.0	98 ± 2.6	74 ± 1.9
200.0		100 ± 1.7		113 ± 8.2	
333.0	5 ± 1.5		5 ± 1.5 ^s		6 ± 1.5 ^s
1000.0	0 ± 0.0 ^s		4 ± 3.5 ^s		0 ± 0.0 ^s
2000.0	0 ± 0.0 ^s		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					647 ± 6.5
Positive Control ³			1068 ± 27.8	1769 ± 181.2	
Positive Control ⁴	1124 ± 37.6	1171 ± 18.9			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	116 ± 6.6
3.3	116 ± 11.0
10.0	119 ± 7.9
33.0	114 ± 5.8
100.0	109 ± 6.7
200.0	91 ± 1.5
333.0	
1000.0	
2000.0	
Trial Summary	Negative
Positive Control ²	1085 ± 34.2
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	23 ± 4.4	10 ± 1.3	10 ± 1.2
33.0	21 ± 1.5	14 ± 3.8	8 ± 1.8
100.0	25 ± 4.1	10 ± 1.2	13 ± 1.3
333.0	29 ± 0.7	11 ± 3.2	11 ± 1.5
1000.0	29 ± 3.8	10 ± 2.5	11 ± 1.0
2000.0	20 ± 4.0 ^s	9 ± 2.4 ^s	9 ± 1.5 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			80 ± 0.0
Positive Control ³		103 ± 2.3	
Positive Control ⁴	920 ± 8.9		

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Test Compound: Sodium mercaptobenzothiazole

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	95 ± 1.7	110 ± 7.0	104 ± 5.2
33.0	88 ± 6.6	111 ± 6.2	103 ± 7.2
100.0	81 ± 1.5	113 ± 3.2	96 ± 2.6
333.0	71 ± 4.6	106 ± 1.5	96 ± 5.8
1000.0	61 ± 5.6	91 ± 6.8	85 ± 1.5
2000.0	36 ± 7.3 ^s	97 ± 9.4 ^s	74 ± 1.5 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			473 ± 5.2
Positive Control ³		720 ± 19.4	
Positive Control ⁵	864 ± 9.9		

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Test Compound: Sodium mercaptobenzothiazole

CAS Number: 2492-26-4

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Strain: TA98

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	22 ± 4.0	34 ± 3.2	25 ± 3.3	24 ± 2.3	32 ± 4.7
33.0	18 ± 0.6	29 ± 2.6	23 ± 1.2	26 ± 4.2	25 ± 2.4
100.0	18 ± 0.7	40 ± 2.0	32 ± 1.7	34 ± 6.6	27 ± 5.2
333.0	11 ± 1.2	37 ± 5.5	41 ± 0.7	48 ± 2.6	30 ± 3.7
1000.0	13 ± 1.5	39 ± 3.2	53 ± 4.5	52 ± 0.3	69 ± 7.4
2000.0	10 ± 1.5 ^s	43 ± 5.0	48 ± 1.5 ^s	44 ± 2.8	73 ± 8.8
Trial Summary	Negative	Negative	Weakly Positive	Weakly Positive	Weakly Positive
Positive Control ²					
Positive Control ³		3074 ± 30.1	1072 ± 4.9	2205 ± 8.3	
Positive Control ⁶					885 ± 73.1
Positive Control ⁷	1581 ± 54.4				

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Strain: TA98

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	31 ± 3.1	25 ± 2.4	38 ± 1.2	33 ± 2.3
33.0	31 ± 1.0	31 ± 2.9	37 ± 3.5	24 ± 2.6
100.0	34 ± 1.9	28 ± 0.3	34 ± 1.8	33 ± 1.0
333.0	32 ± 0.9	30 ± 2.3	33 ± 2.6	36 ± 3.5
1000.0	37 ± 3.9	33 ± 3.2	30 ± 6.5	35 ± 1.5
2000.0	29 ± 4.3	37 ± 2.4 ^s	25 ± 0.7	36 ± 4.1
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	2985 ± 92.5	712 ± 15.0	1164 ± 39.3	
Positive Control ³				
Positive Control ⁶				869 ± 16.5
Positive Control ⁷				

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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: 4.0 ug/Plate 9-Aminoacridine

6: 2.0 ug/Plate 2-Aminoanthracene

7: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****