

Experiment Number: 855075

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

G06: Ames Summary Data

Test Compound: **2-Mercaptobenzothiazole**

CAS Number: **149-30-4**

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

Time Report Requested: **12:36:19**

NTP Study Number:

855075

Study Result:

Equivocal

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	136 ± 10.5	106 ± 7.4	133 ± 3.2
3.3	125 ± 9.9		
10.0	133 ± 10.4	103 ± 13.3	138 ± 3.8
33.0	118 ± 9.8	131 ± 7.2	115 ± 9.8
100.0	131 ± 5.6	123 ± 10.1	109 ± 3.8
333.0	63 ± 0.9 ^s	130 ± 4.9	105 ± 11.9
1000.0		67 ± 9.0 ^s	53 ± 7.9 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			927 ± 16.4
Positive Control ³		878 ± 4.5	
Positive Control ⁴	1109 ± 29.4		

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	23 ± 1.0	9 ± 1.2	10 ± 0.9
3.3	25 ± 1.2		
10.0	29 ± 5.6	9 ± 0.9	9 ± 2.1
33.0	23 ± 0.6	11 ± 0.0	9 ± 0.9
100.0	28 ± 3.6	8 ± 0.6	11 ± 1.3
333.0	20 ± 2.8 ^s	6 ± 0.7	6 ± 2.0
1000.0		4 ± 0.7 ^s	9 ± 0.9 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			89 ± 5.9
Positive Control ³		78 ± 7.5	
Positive Control ⁴	866 ± 2.8		

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 0.3	8 ± 2.0	6 ± 0.3
3.3	6 ± 1.2		
10.0	5 ± 0.9	7 ± 1.0	5 ± 0.6
33.0	6 ± 0.9	10 ± 1.5	5 ± 1.3
100.0	6 ± 0.3	7 ± 2.6	11 ± 2.3
333.0	6 ± 0.7 ^s	7 ± 1.5	7 ± 0.7
1000.0		0 ± 0.0 ^s	0 ± 0.3 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			74 ± 13.6
Positive Control ³		75 ± 2.2	
Positive Control ⁵	563 ± 42.3		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	22 ± 3.5	21 ± 1.9	24 ± 3.2	28 ± 3.1	33 ± 0.9
3.3	15 ± 2.2	18 ± 3.4			
10.0	21 ± 2.3	25 ± 4.1	24 ± 1.5	28 ± 0.6	31 ± 3.4
33.0	19 ± 2.6	18 ± 4.4	28 ± 5.9		
100.0	14 ± 3.1	17 ± 3.8	36 ± 2.6	32 ± 2.6	36 ± 4.4
200.0				31 ± 2.5	33 ± 2.2
333.0	12 ± 1.9	15 ± 1.2	49 ± 2.9	40 ± 2.3	33 ± 2.5
400.0				48 ± 2.2	28 ± 5.3
500.0				37 ± 3.3	30 ± 5.9
600.0				38 ± 3.5	30 ± 5.5
700.0				29 ± 2.0	23 ± 0.9
1000.0			21 ± 1.2	34 ± 4.8	14 ± 2.3
Trial Summary	Negative	Negative	Weakly Positive	Equivocal	Negative
Positive Control ²					
Positive Control ³			818 ± 8.4	1001 ± 58.5	418 ± 21.8
Positive Control ⁶	1399 ± 48.1	1408 ± 141.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	28 ± 2.9	26 ± 2.9	36 ± 2.6
3.3			
10.0	29 ± 6.1	29 ± 1.2	31 ± 0.7
33.0	26 ± 1.3		
100.0	35 ± 3.2	33 ± 2.3	23 ± 3.2
200.0		44 ± 1.3	29 ± 4.1
333.0	42 ± 1.2	49 ± 2.3	26 ± 3.2
400.0		43 ± 3.6	32 ± 5.4
500.0		46 ± 8.8	27 ± 5.3
600.0		43 ± 4.3	18 ± 2.6
700.0		40 ± 0.9	28 ± 4.1
1000.0	21 ± 3.8	22 ± 0.9	14 ± 0.3
Trial Summary	Negative	Weakly Positive	Negative
Positive Control ²	944 ± 37.8	1187 ± 62.3	553 ± 39.4
Positive Control ³			
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 ****