

Experiment Number: A51944

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 2,5-Dimercapto-1,3,4-thiadiazole

CAS Number: 1072-71-5

Date Report Requested: 09/17/2018

Time Report Requested: 04:14:17

**NTP Study Number:**

A51944

**Study Result:**

Negative

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	58 ± 5.2	63 ± 3.5	71 ± 2.5	60 ± 3.7
25.0	49 ± 5.5			
50.0	66 ± 1.9			
100.0	59 ± 3.4		65 ± 2.3	
200.0	68 ± 4.9			
250.0		62 ± 1.8	59 ± 5.2	
400.0	71 ± 3.6			
500.0		57 ± 3.1	60 ± 2.9	
750.0		6 ± 0.9 <sup>s</sup>	51 ± 3.8	
1000.0		Toxic	54 ± 4.8	44 ± 3.8
2000.0				41 ± 2.9
3500.0				36 ± 2.0
5000.0				29 ± 2.0
7500.0				19 ± 1.2 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	600 ± 16.5	671 ± 74.3		
Positive Control <sup>3</sup>			1101 ± 11.1	767 ± 6.0

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	20 ± 2.4	19 ± 1.5	27 ± 2.0	24 ± 1.7
25.0	15 ± 1.5			
50.0	14 ± 1.0			
100.0	15 ± 1.8		24 ± 3.1	
200.0	17 ± 3.2			
250.0		18 ± 2.0	27 ± 1.7	
400.0	14 ± 1.5			
500.0		14 ± 0.6	21 ± 0.6	26 ± 1.9
750.0		Toxic	22 ± 3.2	
1000.0		Toxic	20 ± 1.5	20 ± 0.6
2000.0				21 ± 0.9
3500.0				19 ± 1.2
5000.0				15 ± 0.6
7500.0				12 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			1048 ± 24.4	1281 ± 45.0
Positive Control <sup>4</sup>	572 ± 27.1	719 ± 48.8		

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## Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	114 ± 5.5	109 ± 2.0	172 ± 4.5	158 ± 9.5
25.0	125 ± 7.8	107 ± 6.9		
50.0	128 ± 10.0	85 ± 2.7		
100.0	180 ± 16.0	98 ± 4.4	187 ± 12.3	166 ± 3.3
150.0		100 ± 4.1		
200.0	78 ± 9.2	76 ± 1.7		
250.0			210 ± 29.7	190 ± 2.6
400.0	20 ± 3.3 <sup>s</sup>	18 ± 0.6 <sup>s</sup>		
500.0			169 ± 9.3	161 ± 3.8
750.0			112 ± 4.4	87 ± 4.3
1000.0			57 ± 2.7 <sup>s</sup>	53 ± 5.9 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>5</sup>			1158 ± 29.8	1050 ± 7.1
Positive Control <sup>6</sup>	1897 ± 17.0	2042 ± 54.8		

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#### **LEGEND**

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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 Sodium Azide

3: 2.5 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate 2-Nitrofluorene

5: 20.0 ug/Plate 2-Aminoanthracene

6: 4000.0 ug/Plate Methyl Methane Sulfonate

s: Slight Toxicity

**\*\* END OF REPORT \*\***