

Experiment Number: 818295

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Methylene bis(thiocyanate)

CAS Number: 6317-18-6

Date Report Requested: 09/15/2018

Time Report Requested: 14:34:13

**NTP Study Number:**

818295

**Study Result:**

Negative

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	116 ± 4.3	120 ± 4.2	115 ± 6.7	148 ± 12.3	94 ± 4.5
0.01	117 ± 4.3				
0.03	116 ± 1.0	122 ± 9.7			
0.1	107 ± 3.2	116 ± 6.9			
0.3	106 ± 10.2	107 ± 7.5			
1.0	117 ± 9.2	107 ± 6.9	110 ± 12.7	161 ± 7.1	105 ± 18.5
1.6		124 ± 8.4			
3.0			119 ± 5.7	139 ± 16.8	96 ± 4.7
10.0			122 ± 5.0	134 ± 12.3	117 ± 4.7
33.0			130 ± 3.2	140 ± 1.7	138 ± 9.2
66.0				141 ± 11.3	
100.0			Toxic		Toxic
166.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					727 ± 23.4
Positive Control <sup>3</sup>			530 ± 9.3		
Positive Control <sup>4</sup>	315 ± 8.1	499 ± 13.5			
Positive Control <sup>5</sup>				361 ± 16.1	

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	116 ± 4.5
0.01	
0.03	
0.1	
0.3	
1.0	
1.6	
3.0	126 ± 14.3
10.0	94 ± 8.4
33.0	117 ± 6.0
66.0	
100.0	128 ± 10.4
166.0	0 ± 0.0 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	435 ± 20.0
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	22 ± 0.9	18 ± 1.8	8 ± 1.7	12 ± 2.0	6 ± 1.5
0.03	24 ± 0.3	19 ± 1.2			
0.1	22 ± 2.4	19 ± 0.9			
0.3	19 ± 1.2	14 ± 2.1			
1.0	12 ± 1.5	15 ± 2.0	10 ± 0.9	12 ± 1.5	6 ± 1.8
1.6	14 ± 2.6	13 ± 1.2			
3.0			7 ± 1.5	12 ± 0.9	4 ± 1.5
10.0			10 ± 2.2	9 ± 1.0	6 ± 0.9
33.0			7 ± 1.5	14 ± 2.2	11 ± 1.3
100.0			Toxic	17 ± 2.0	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>	308 ± 5.1	400 ± 23.4			
Positive Control <sup>3</sup>					220 ± 19.1
Positive Control <sup>6</sup>			251 ± 8.9		
Positive Control <sup>7</sup>				193 ± 23.5	

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	9 ± 1.2
0.03	
0.1	
0.3	
1.0	11 ± 4.0
1.6	
3.0	12 ± 2.6
10.0	9 ± 3.2
33.0	11 ± 1.7
100.0	16 ± 1.9
Trial Summary	Negative
Positive Control <sup>4</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>6</sup>	624 ± 44.9
Positive Control <sup>7</sup>	

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## Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	6 ± 1.5	12 ± 3.8	7 ± 1.5
0.03	7 ± 1.2		
0.1	7 ± 2.9		
0.3	7 ± 0.6		
1.0	5 ± 1.8	7 ± 0.9	6 ± 0.9
1.6	11 ± 2.7		
3.0		10 ± 1.0	4 ± 1.2
10.0		9 ± 0.3	3 ± 0.7
33.0		7 ± 0.3	6 ± 1.2
100.0		6 ± 0.0	5 ± 0.9
Trial Summary	Negative	Negative	Negative
Positive Control <sup>3</sup>			37 ± 2.9
Positive Control <sup>6</sup>		42 ± 0.9	
Positive Control <sup>8</sup>	414 ± 7.0		

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	146 ± 5.2	133 ± 1.2	165 ± 3.8	181 ± 4.6	126 ± 6.7
0.03	155 ± 4.0	145 ± 3.7			
0.1	161 ± 7.0	141 ± 22.9			
0.3	177 ± 8.0	154 ± 8.5			
1.0	186 ± 2.0	158 ± 5.8	169 ± 18.6	195 ± 4.2	113 ± 14.0
1.6	160 ± 6.7	172 ± 6.6			
3.0			181 ± 17.3	199 ± 2.3	137 ± 15.3
10.0			140 ± 4.9	187 ± 11.3	157 ± 8.9
33.0			166 ± 12.7	197 ± 5.8	139 ± 6.1
100.0			Toxic	199 ± 12.3	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					345 ± 50.9
Positive Control <sup>3</sup>			509 ± 26.4		
Positive Control <sup>6</sup>				432 ± 14.9	
Positive Control <sup>8</sup>	554 ± 76.6	679 ± 34.4			

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	164 ± 7.8
0.03	
0.1	
0.3	
1.0	174 ± 3.7
1.6	
3.0	187 ± 7.7
10.0	163 ± 10.0
33.0	163 ± 4.6
100.0	188 ± 5.5
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	327 ± 9.0
Positive Control <sup>6</sup>	
Positive Control <sup>8</sup>	



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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	15 ± 2.2	16 ± 0.9	28 ± 5.3	22 ± 1.2	18 ± 2.7
0.01	15 ± 1.8				
0.03	12 ± 3.3	16 ± 1.2			
0.1	19 ± 1.5	15 ± 3.4			
0.3	13 ± 0.7	16 ± 0.7			
1.0	20 ± 3.5	15 ± 0.9	30 ± 2.3	26 ± 0.9	24 ± 3.9
1.6		20 ± 2.9			
3.0			27 ± 2.7	25 ± 2.3	20 ± 3.0
10.0			22 ± 2.3	21 ± 3.0	18 ± 1.5
33.0			23 ± 1.2	30 ± 2.7	19 ± 2.0
66.0				26 ± 1.9	
100.0			Toxic		Toxic
166.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					589 ± 65.6
Positive Control <sup>3</sup>			349 ± 9.5	79 ± 2.6	
Positive Control <sup>9</sup>	439 ± 9.0	585 ± 32.7			

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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	33 ± 4.3
0.01	
0.03	
0.1	
0.3	
1.0	
1.6	
3.0	38 ± 1.5
10.0	30 ± 2.5
33.0	32 ± 2.0
66.0	
100.0	37 ± 0.3
166.0	0 ± 0.0 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	217 ± 18.8
Positive Control <sup>9</sup>	

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.0 ug/Plate 2-Aminoanthracene

6: 2.5 ug/Plate 2-Aminoanthracene

7: 5.0 ug/Plate 2-Aminoanthracene

8: 50.0 ug/Plate 9-Aminoacridine

9: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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