

Experiment Number: 742172

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Dimethoxane

CAS Number: 828-00-2

Date Report Requested: 09/17/2018

Time Report Requested: 06:09:21

**NTP Study Number:**

742172

**Study Result:**

Positive

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	118 ± 0.7	129 ± 3.8	163 ± 3.1	115 ± 3.4	145 ± 5.6
33.0	126 ± 3.5				
100.0	113 ± 12.3	133 ± 6.2	156 ± 3.6	105 ± 15.6	
333.0	98 ± 2.6	125 ± 9.4	146 ± 3.8	96 ± 1.7	
1000.0	119 ± 9.2	122 ± 11.3	164 ± 4.1	109 ± 8.7	138 ± 4.7
2000.0		143 ± 1.2	173 ± 6.7		
2150.0	134 ± 12.3				
2500.0		150 ± 9.2			
3333.0			289 ± 26.3 <sup>s</sup>	135 ± 2.1	136 ± 1.5
4444.0					145 ± 13.4
5500.0					
5555.0					245 ± 14.2
6666.0				219 ± 33.3 <sup>s</sup>	753 ± 59.3 <sup>s</sup>
Trial Summary	Negative	Negative	Equivocal	Equivocal	Positive
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>				916 ± 17.5	719 ± 28.9
Positive Control <sup>4</sup>	1379 ± 61.1	1429 ± 67.5	2840 ± 43.1		

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	107 ± 4.9	112 ± 9.7
33.0		
100.0	106 ± 5.7	
333.0	111 ± 11.5	
1000.0	105 ± 6.1	123 ± 12.9
2000.0		
2150.0		
2500.0		
3333.0	156 ± 3.3	140 ± 2.6
4444.0		154 ± 11.5
5500.0		271 ± 20.4
5555.0		
6666.0	278 ± 18.4 <sup>s</sup>	299 ± 33.7 <sup>s</sup>
Trial Summary	Positive	Positive
Positive Control <sup>2</sup>	1313 ± 49.5	2894 ± 8.4
Positive Control <sup>3</sup>		
Positive Control <sup>4</sup>		

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**Strain: TA1535**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	22 ± 3.7	7 ± 2.3	10 ± 3.0
33.0	23 ± 0.9		
100.0	16 ± 1.9	10 ± 1.5	10 ± 1.5
333.0	19 ± 2.3	7 ± 0.6	10 ± 3.7
1000.0	17 ± 2.3	11 ± 0.6	11 ± 1.2
2150.0	18 ± 2.5		
3333.0		7 ± 1.3	6 ± 0.9
6666.0		7 ± 1.5	5 ± 0.3
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			99 ± 12.7
Positive Control <sup>3</sup>		77 ± 8.5	
Positive Control <sup>4</sup>	968 ± 21.7		

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G06: Ames Summary Data  
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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	9 ± 1.2	8 ± 1.9	10 ± 3.2
33.0	7 ± 0.3		
100.0	9 ± 2.3	9 ± 1.2	8 ± 1.3
333.0	8 ± 3.3	9 ± 1.8	10 ± 0.9
1000.0	5 ± 0.9	8 ± 1.8	6 ± 0.6
2150.0	6 ± 0.9		
3333.0		8 ± 1.8	8 ± 1.2
6666.0		6 ± 1.5 <sup>s</sup>	6 ± 1.2 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			150 ± 9.6
Positive Control <sup>3</sup>		90 ± 6.2	
Positive Control <sup>5</sup>	111 ± 11.4		

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Test Compound: Dimethoxane

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**Strain: TA98**

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	21 ± 2.4	26 ± 0.6	24 ± 0.3
33.0	20 ± 1.9		
100.0	23 ± 2.3	27 ± 2.9	29 ± 1.3
333.0	20 ± 1.2	26 ± 2.9	28 ± 2.4
1000.0	18 ± 2.6	32 ± 5.2	28 ± 2.2
2150.0	20 ± 3.0		
3333.0		27 ± 2.0	16 ± 1.5
6666.0		2 ± 1.7 <sup>s</sup>	8 ± 1.7 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			1509 ± 76.3
Positive Control <sup>3</sup>		855 ± 39.2	
Positive Control <sup>6</sup>	1886 ± 9.4		

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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: 0.75 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 \*\***