

Experiment Number: 035504

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: bis(2-Chloro-1-methylethyl) ether

CAS Number: 108-60-1

Date Report Requested: 09/14/2018

Time Report Requested: 19:33:56

**NTP Study Number:**

035504

**Study Result:**

Weakly Positive

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	147 ± 6.6	130 ± 3.1	147 ± 13.1	133 ± 4.3	105 ± 5.3
10.0	149 ± 7.4		158 ± 16.2		
33.0	132 ± 11.0	127 ± 8.0	161 ± 6.7		117 ± 3.5
100.0	153 ± 5.5	120 ± 4.3	159 ± 3.7	163 ± 10.7	141 ± 5.4
333.0	143 ± 4.2	128 ± 3.6	160 ± 8.6	144 ± 8.5	141 ± 2.3
666.0		113 ± 9.0			117 ± 3.7
1000.0	103 ± 31.3	103 ± 3.5	181 ± 10.7	109 ± 9.3	39 ± 38.5 <sup>s</sup>
1666.0				69 ± 35.5 <sup>s</sup>	
3333.0				95 ± 3.2 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control <sup>2</sup>			986 ± 15.6	688 ± 12.7	423 ± 3.6
Positive Control <sup>3</sup>	396 ± 9.0	641 ± 13.0			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	144 ± 4.7	126 ± 2.5
10.0		
33.0		198 ± 4.4
100.0	236 ± 8.2	218 ± 6.7
333.0	239 ± 4.9	206 ± 3.0
666.0		205 ± 7.4
1000.0	148 ± 8.7	200 ± 1.5
1666.0	2 ± 1.7 <sup>s</sup>	
3333.0	0 ± 0.0 <sup>s</sup>	
Trial Summary	Equivocal	Weakly Positive
Positive Control <sup>2</sup>	1121 ± 67.6	1088 ± 9.3
Positive Control <sup>3</sup>		

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	15 ± 0.9	32 ± 3.6	5 ± 0.9	11 ± 3.1	15 ± 1.5
10.0	19 ± 3.0		9 ± 0.6		13 ± 0.6
33.0	27 ± 1.7	28 ± 1.3	8 ± 2.7	8 ± 3.0	21 ± 4.7
100.0	21 ± 0.6	26 ± 0.9	9 ± 1.3	11 ± 3.7	26 ± 0.9
333.0	20 ± 1.3	24 ± 1.7	12 ± 3.8	10 ± 1.8	33 ± 2.1
666.0		16 ± 1.5		14 ± 4.2	
1000.0	14 ± 0.3	13 ± 2.1	24 ± 2.6	10 ± 1.7 <sup>s</sup>	150 ± 91.0
1666.0					
3333.0					
Trial Summary	Negative	Negative	Equivocal	Negative	Positive
Positive Control <sup>3</sup>	320 ± 28.5	564 ± 14.2			
Positive Control <sup>4</sup>			186 ± 0.6	157 ± 15.9	548 ± 20.4

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**Strain: TA1535**

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	15 ± 1.2	10 ± 1.2
10.0		
33.0		20 ± 4.5
100.0	24 ± 3.2	33 ± 1.7
333.0	22 ± 5.5	31 ± 1.5
666.0		6 ± 2.1 <sup>s</sup>
1000.0	7 ± 4.7	2 ± 0.5 <sup>s</sup>
1666.0	0 ± 0.0 <sup>s</sup>	
3333.0	0 ± 0.0 <sup>s</sup>	
Trial Summary	Negative	Weakly Positive
Positive Control <sup>3</sup>		
Positive Control <sup>4</sup>	453 ± 15.6	477 ± 5.5

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**Strain: TA1537**

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	8 ± 2.6	6 ± 1.7	8 ± 0.3	8 ± 2.0	6 ± 2.0
10.0	8 ± 1.9		7 ± 1.2		8 ± 3.2
33.0	7 ± 0.3	5 ± 1.8	7 ± 0.3	6 ± 0.9	5 ± 0.9
100.0	9 ± 1.5	7 ± 0.3	10 ± 2.0	7 ± 3.3	5 ± 1.7
333.0	7 ± 2.8	8 ± 4.7	5 ± 1.0	5 ± 1.0	3 ± 1.2 <sup>s</sup>
666.0		4 ± 0.3		6 ± 0.9	
1000.0	8 ± 1.5	5 ± 1.2	7 ± 1.2	5 ± 2.4 <sup>s</sup>	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			277 ± 46.3	98 ± 9.0	493 ± 20.1
Positive Control <sup>5</sup>	212 ± 5.5	126 ± 10.8			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	12 ± 2.6
10.0	
33.0	3 ± 0.6
100.0	5 ± 1.9
333.0	2 ± 1.0
666.0	2 ± 0.6
1000.0	2 ± 1.0 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	341 ± 21.2
Positive Control <sup>5</sup>	

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	18 ± 2.2	26 ± 0.9	32 ± 4.2	28 ± 5.2	22 ± 1.9
10.0	19 ± 3.2		27 ± 3.7		27 ± 7.5
33.0	25 ± 3.6	16 ± 2.0	31 ± 1.8	26 ± 0.9	30 ± 4.2
100.0	23 ± 4.2	22 ± 3.4	30 ± 2.5	28 ± 1.7	23 ± 1.2
333.0	21 ± 4.3	20 ± 3.0	24 ± 3.6	21 ± 5.6	18 ± 4.8 <sup>s</sup>
666.0		16 ± 1.7		21 ± 4.7	
1000.0	10 ± 1.5 <sup>s</sup>	6 ± 3.8 <sup>s</sup>	22 ± 4.2	17 ± 3.3 <sup>s</sup>	13 ± 0.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			510 ± 36.9	294 ± 21.5	1850 ± 215.9
Positive Control <sup>6</sup>	752 ± 46.8	874 ± 21.3			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	33 ± 3.2
10.0	
33.0	26 ± 3.8
100.0	23 ± 3.1
333.0	25 ± 5.7
666.0	22 ± 5.6
1000.0	0 ± 0.0 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	844 ± 41.5
Positive Control <sup>6</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: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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