

Experiment Number: 082677

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: 09/11/2018

Time Report Requested: 01:25:05

**NTP Study Number:**

082677

**Study Result:**

Positive

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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>	78 ± 3.4	112 ± 5.4	88 ± 3.5	133 ± 7.8	118 ± 1.5
3.3		122 ± 3.2		126 ± 4.1	
10.0	87 ± 10.4	102 ± 7.0	104 ± 8.7	128 ± 2.6	133 ± 2.0
33.0	91 ± 4.0	107 ± 7.3	92 ± 3.0	151 ± 6.3	125 ± 5.9
100.0	80 ± 6.2	95 ± 5.2	88 ± 7.7	121 ± 1.8	135 ± 3.8
333.0	86 ± 9.0	97 ± 1.2	85 ± 2.6	115 ± 8.2	149 ± 2.7 <sup>s</sup>
666.0	77 ± 6.6 <sup>s</sup>		93 ± 4.8 <sup>s</sup>		118 ± 22.8 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1960 ± 88.7
Positive Control <sup>3</sup>			1529 ± 41.6		
Positive Control <sup>4</sup>				545 ± 25.9	
Positive Control <sup>5</sup>	1149 ± 20.0	1259 ± 18.1			

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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>	126 ± 4.4
3.3	122 ± 11.0
10.0	121 ± 9.8
33.0	130 ± 4.4
100.0	165 ± 1.2
333.0	311 ± 15.6
666.0	
Trial Summary	Weakly Positive
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	895 ± 12.5
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>	19 ± 2.0	33 ± 2.6	10 ± 3.8	12 ± 1.2	13 ± 1.8
3.3		27 ± 5.0		12 ± 1.2	
10.0	29 ± 1.5	26 ± 3.6	10 ± 0.7	13 ± 1.9	13 ± 2.3
33.0	21 ± 2.6	27 ± 1.0	10 ± 0.7	14 ± 2.6	15 ± 0.9
100.0	21 ± 2.0	28 ± 3.2	7 ± 2.3	14 ± 2.3	18 ± 0.9
333.0	19 ± 1.7 <sup>s</sup>	30 ± 1.8	9 ± 1.2	14 ± 1.7	23 ± 2.6 <sup>s</sup>
666.0	22 ± 4.0 <sup>s</sup>		9 ± 0.6 <sup>s</sup>		15 ± 2.2 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control <sup>2</sup>					140 ± 4.8
Positive Control <sup>3</sup>			114 ± 8.7		
Positive Control <sup>4</sup>				194 ± 11.9	
Positive Control <sup>5</sup>	898 ± 18.6	988 ± 18.1			

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**G06: Ames Summary Data**

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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>	14 ± 0.0
3.3	15 ± 1.3
10.0	11 ± 0.6
33.0	20 ± 1.3
100.0	36 ± 2.1
333.0	74 ± 1.7
666.0	
Trial Summary	Positive
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	315 ± 8.7
Positive Control <sup>5</sup>	

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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>	81 ± 2.3	93 ± 7.7	110 ± 7.2	172 ± 12.2	116 ± 6.1
3.3		94 ± 3.8		181 ± 3.8	
10.0	83 ± 3.7	90 ± 9.6	115 ± 8.7	197 ± 5.0	91 ± 8.5
33.0	73 ± 8.5	93 ± 1.7	122 ± 2.8	181 ± 6.5	90 ± 7.4
100.0	85 ± 3.5	89 ± 4.5	101 ± 7.8	180 ± 2.3	93 ± 5.2 <sup>s</sup>
333.0	89 ± 6.2	98 ± 6.2	91 ± 6.2 <sup>s</sup>	156 ± 7.2	72 ± 5.0 <sup>s</sup>
666.0	71 ± 5.0 <sup>s</sup>		69 ± 5.4 <sup>s</sup>		0 ± 0.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					763 ± 4.7
Positive Control <sup>3</sup>			923 ± 19.0		
Positive Control <sup>4</sup>				399 ± 5.9	
Positive Control <sup>6</sup>	918 ± 71.8	770 ± 23.3			

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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>	146 ± 10.8
3.3	166 ± 3.8
10.0	144 ± 4.7
33.0	152 ± 6.2
100.0	145 ± 6.2
333.0	157 ± 7.9
666.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	693 ± 13.7
Positive Control <sup>6</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 ± 2.1	16 ± 0.9	25 ± 1.8	36 ± 1.0	27 ± 3.8
3.3		16 ± 1.2		25 ± 1.0	
10.0	16 ± 3.5	14 ± 2.9	28 ± 2.7	29 ± 2.9	26 ± 6.3
33.0	14 ± 1.9	16 ± 2.7	22 ± 0.9	34 ± 1.9	26 ± 2.0
100.0	15 ± 0.0	15 ± 1.7	26 ± 1.8	20 ± 4.5	18 ± 2.3
333.0	16 ± 1.8 <sup>s</sup>	11 ± 1.0	18 ± 1.8	26 ± 2.6	19 ± 0.9
666.0	9 ± 0.6 <sup>s</sup>		19 ± 2.7 <sup>s</sup>		9 ± 1.9 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1842 ± 54.9
Positive Control <sup>3</sup>			1527 ± 30.2		
Positive Control <sup>4</sup>				538 ± 5.5	
Positive Control <sup>7</sup>	1456 ± 40.4	1843 ± 62.9			



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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>	28 ± 4.4
3.3	32 ± 5.5
10.0	29 ± 1.2
33.0	28 ± 1.2
100.0	27 ± 1.2
333.0	25 ± 1.2
666.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	1059 ± 61.5
Positive Control <sup>7</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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 4.0 ug/Plate 9-Aminoacridine

7: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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