

Experiment Number: 579121

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: **bis(2-Chloroethyl)ether**

CAS Number: 111-44-4

Date Report Requested: **09/14/2018**

Time Report Requested: **11:34:39**

NTP Study Number:

579121

Study Result:

Equivocal

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Date Report Requested: 09/14/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	119 ± 7.9	122 ± 8.3	152 ± 14.5	157 ± 13.8	127 ± 13.3
1.0	105 ± 10.2	139 ± 1.5	149 ± 4.6	130 ± 3.2	134 ± 5.5
3.3	95 ± 11.3	142 ± 5.7	132 ± 2.4	140 ± 5.4	140 ± 6.7
10.0	105 ± 5.2	145 ± 3.7	146 ± 5.8	129 ± 6.3	120 ± 3.2
16.0					
33.0	110 ± 4.0	141 ± 7.5	157 ± 7.7	142 ± 6.4	136 ± 14.1
67.0					
100.0	116 ± 11.5	145 ± 7.9	156 ± 11.5	154 ± 5.2	169 ± 5.5
167.0					
Trial Summary	Negative	Equivocal	Negative	Negative	Equivocal
Positive Control ²			3012 ± 84.3	2333 ± 153.0	2232 ± 60.0
Positive Control ³	1309 ± 25.5	1518 ± 31.3			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	109 ± 2.6	176 ± 9.0
1.0		159 ± 9.0
3.3		145 ± 4.7
10.0		146 ± 3.4
16.0	105 ± 13.6	
33.0	140 ± 6.2	162 ± 2.9
67.0	134 ± 8.4	
100.0	110 ± 9.6	167 ± 15.9
167.0	107 ± 4.1	
Trial Summary	Equivocal	Negative
Positive Control ²	2677 ± 145.0	2615 ± 100.1
Positive Control ³		

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	13 ± 2.3	15 ± 1.2	8 ± 2.7	8 ± 2.5	15 ± 4.0
1.0	14 ± 2.1	13 ± 1.2	7 ± 2.3		12 ± 1.7
3.3	18 ± 2.3	14 ± 2.1	14 ± 3.5		12 ± 2.2
10.0	15 ± 4.0	13 ± 0.3	14 ± 1.8	9 ± 1.7	12 ± 1.5
16.0				9 ± 3.8	
33.0	18 ± 1.2	8 ± 0.7	25 ± 2.7	8 ± 1.7	13 ± 3.5
67.0				13 ± 0.9	
100.0	10 ± 9.7	10 ± 1.5	40 ± 5.2	9 ± 0.9	15 ± 2.2
Trial Summary	Negative	Negative	Positive	Negative	Negative
Positive Control ⁴			360 ± 11.9	77 ± 39.2	249 ± 18.4
Positive Control ³	1025 ± 108.6	900 ± 48.0			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	12 ± 3.5	5 ± 1.9	15 ± 3.8	26 ± 1.5	8 ± 1.7
1.0	15 ± 3.0		10 ± 1.5	25 ± 4.2	12 ± 1.3
3.3	13 ± 1.0		11 ± 1.5	26 ± 3.3	17 ± 2.6
10.0	15 ± 2.1	5 ± 1.2	10 ± 0.7	26 ± 0.3	18 ± 1.9
16.0		13 ± 0.9			
33.0	18 ± 1.2	9 ± 0.9	12 ± 0.9	29 ± 4.1	17 ± 2.7
67.0		8 ± 1.5			
100.0	39 ± 8.5	7 ± 0.6	13 ± 1.2	35 ± 6.5	11 ± 2.4
Trial Summary	Equivocal	Negative	Negative	Negative	Equivocal
Positive Control ⁴	348 ± 19.7	87 ± 15.4	339 ± 24.1	311 ± 44.5	296 ± 15.6
Positive Control ³					

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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 ¹	4 ± 1.2	11 ± 1.0	9 ± 0.3	18 ± 2.2	8 ± 1.3
1.0	9 ± 0.7	12 ± 1.2	4 ± 0.6	17 ± 0.6	7 ± 0.7
3.3	5 ± 0.7	15 ± 1.9	10 ± 0.9	17 ± 0.0	10 ± 1.5
10.0	4 ± 0.6	8 ± 0.9	12 ± 1.2	16 ± 0.6	13 ± 1.7
33.0	7 ± 1.8	8 ± 1.2	11 ± 0.6	7 ± 0.9	10 ± 3.2
100.0	Toxic	11 ± 2.0	8 ± 3.5	16 ± 2.8	8 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			55 ± 14.2	268 ± 23.0	43 ± 3.0
Positive Control ⁵	1341 ± 167.9	297 ± 53.0			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	22 ± 2.6
1.0	19 ± 1.8
3.3	15 ± 1.5
10.0	22 ± 4.2
33.0	12 ± 0.9
100.0	13 ± 1.5
Trial Summary	Negative
Positive Control ⁴	171 ± 20.5
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	26 ± 6.0	23 ± 2.8	33 ± 3.3	37 ± 1.9	8 ± 1.5
1.0	23 ± 2.3	29 ± 3.2	31 ± 1.5	29 ± 4.9	34 ± 4.0
3.3	22 ± 3.8	41 ± 2.6	30 ± 3.5	40 ± 6.6	49 ± 4.8
10.0	28 ± 2.2	31 ± 1.5	26 ± 3.3	44 ± 1.0	51 ± 3.5
33.0	17 ± 2.0	36 ± 6.1	31 ± 7.2	49 ± 4.5	43 ± 2.3
100.0	20 ± 2.0	26 ± 1.5	28 ± 2.5	36 ± 1.3	44 ± 5.6
Trial Summary	Negative	Equivocal	Negative	Negative	Positive
Positive Control ²			1614 ± 67.0	521 ± 3.5	555 ± 35.2
Positive Control ⁶	181 ± 12.5	679 ± 34.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	15 ± 1.2	24 ± 2.0	26 ± 1.7
1.0	12 ± 1.7	30 ± 6.9	35 ± 3.2
3.3	11 ± 2.3	36 ± 1.2	39 ± 4.1
10.0	14 ± 0.6	30 ± 4.1	37 ± 7.0
33.0	14 ± 0.9	27 ± 1.0	26 ± 2.5
100.0	10 ± 3.5	28 ± 1.5	32 ± 7.1
Trial Summary	Negative	Negative	Equivocal
Positive Control ²	1036 ± 63.2	2292 ± 138.7	1411 ± 48.2
Positive Control ⁶			

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LEGEND

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: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****