

Experiment Number: 492689

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: bis(2-Chloroethyl)ether

CAS Number: 111-44-4

Date Report Requested: 09/11/2018

Time Report Requested: 23:20:19

NTP Study Number:

492689

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% Hamster S9
Vehicle Control ¹	96 ± 2.8	103 ± 5.3	110 ± 7.3	87 ± 5.5	120 ± 7.0
33.0		85 ± 3.1			
100.0	98 ± 6.9	84 ± 3.0	110 ± 3.8		137 ± 1.8
333.0	114 ± 7.4	87 ± 2.3	115 ± 4.7	116 ± 7.3	129 ± 7.1
1000.0	132 ± 12.2	106 ± 4.5	125 ± 5.5	138 ± 7.2	135 ± 4.7
3333.0	134 ± 10.2	98 ± 4.7	138 ± 13.4	147 ± 8.1	149 ± 10.8
6666.0	86 ± 8.1 ^s			141 ± 14.5	
10000.0			149 ± 9.4	152 ± 3.1	160 ± 8.8
Trial Summary	Equivocal	Negative	Equivocal	Weakly Positive	Equivocal
Positive Control ²	348 ± 10.4	346 ± 2.0			
Positive Control ³			464 ± 5.2	385 ± 12.3	1067 ± 33.1

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	110 ± 7.6
33.0	
100.0	
333.0	98 ± 6.4
1000.0	93 ± 7.9
3333.0	123 ± 7.4
6666.0	150 ± 5.8
10000.0	146 ± 0.6
Trial Summary	Equivocal
Positive Control ²	
Positive Control ³	1123 ± 40.2

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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 ¹	23 ± 4.0	30 ± 1.5	9 ± 1.5	9 ± 1.5	7 ± 0.3
33.0		19 ± 0.6			
100.0	22 ± 2.8	16 ± 2.3	6 ± 1.2		7 ± 0.6
333.0	18 ± 5.9	16 ± 1.7	8 ± 2.7	15 ± 1.5	15 ± 1.8
1000.0	27 ± 3.1	16 ± 1.5	10 ± 3.6	11 ± 1.8	16 ± 2.0
3333.0	17 ± 6.1	22 ± 5.4	16 ± 1.5	17 ± 1.3	25 ± 2.6
6666.0	0 ± 0.0 ^s			16 ± 2.0	
10000.0			21 ± 2.1	12 ± 2.0	18 ± 9.1
Trial Summary	Negative	Negative	Equivocal	Negative	Equivocal
Positive Control ²	366 ± 31.1	344 ± 11.1			
Positive Control ⁴			257 ± 29.8	163 ± 6.2	452 ± 6.0

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	15 ± 1.7
33.0	
100.0	
333.0	14 ± 2.3
1000.0	17 ± 1.2
3333.0	22 ± 1.0
6666.0	22 ± 1.0
10000.0	20 ± 2.0
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	358 ± 9.8

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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	3 ± 0.7	3 ± 0.7	6 ± 1.5	4 ± 0.6	5 ± 1.0
33.0		5 ± 1.7			
100.0	5 ± 0.9	3 ± 0.3	6 ± 1.2		4 ± 1.5
333.0	5 ± 2.6	3 ± 1.5	5 ± 1.2	5 ± 2.1	6 ± 0.7
1000.0	4 ± 0.6	5 ± 1.7	6 ± 0.3	7 ± 0.6	8 ± 2.6
3333.0	7 ± 1.5	3 ± 0.7	4 ± 1.9	6 ± 1.2	8 ± 1.5
6666.0	3 ± 1.0			4 ± 1.5	
10000.0			4 ± 1.2	3 ± 0.7	3 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			160 ± 22.2	169 ± 2.6	422 ± 28.3
Positive Control ⁵	241 ± 23.8	156 ± 22.4			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 1.3
33.0	
100.0	
333.0	8 ± 0.6
1000.0	6 ± 1.5
3333.0	7 ± 2.4
6666.0	7 ± 2.7
10000.0	3 ± 1.2
Trial Summary	Negative
Positive Control ⁴	320 ± 6.1
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% Hamster S9
Vehicle Control ¹	14 ± 1.2	17 ± 1.2	22 ± 2.0	30 ± 6.3	24 ± 2.0
33.0		17 ± 1.5			
100.0	14 ± 3.3	14 ± 0.6	25 ± 2.9		34 ± 3.8
333.0	13 ± 0.9	14 ± 1.2	21 ± 1.5	30 ± 5.2	29 ± 2.7
1000.0	18 ± 1.2	14 ± 1.5	23 ± 2.3	26 ± 0.6	29 ± 6.4
3333.0	13 ± 2.9	9 ± 2.0	20 ± 2.2	21 ± 3.2	21 ± 2.2
6666.0	4 ± 4.0 ^s			15 ± 1.5	
10000.0			20 ± 2.6	18 ± 3.2	18 ± 4.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			411 ± 13.7	230 ± 8.8	1012 ± 54.6
Positive Control ⁶	480 ± 38.2	315 ± 7.8			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	25 ± 3.3
33.0	
100.0	
333.0	18 ± 5.2
1000.0	20 ± 3.5
3333.0	24 ± 3.8
6666.0	19 ± 3.5
10000.0	20 ± 2.6
Trial Summary	Negative
Positive Control ³	975 ± 13.7
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 Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

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 ****