

Experiment Number: **A92025**

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

G06: Ames Summary Data

Test Compound: **bis(2-Chloroethoxy)methane**

CAS Number: **111-91-1**

Date Report Requested: **09/15/2018**

Time Report Requested: **12:22:26**

NTP Study Number:

A92025

Study Result:

Positive

Experiment Number: A92025

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 09/15/2018

Time Report Requested: 12:22:26

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	117 ± 5.2	107 ± 3.4	88 ± 6.6	123 ± 6.2	123 ± 2.4
33.0			90 ± 3.8		
100.0	108 ± 1.8	104 ± 9.1	84 ± 4.4	121 ± 5.8	126 ± 3.7
333.0	128 ± 3.8	121 ± 6.7	85 ± 6.5	136 ± 3.9	140 ± 8.3
666.0		128 ± 14.2	90 ± 6.7	136 ± 2.2	
1000.0	147 ± 5.2	124 ± 5.9	92 ± 5.8	149 ± 9.9	156 ± 7.9
1666.0		123 ± 4.1	90 ± 4.4	156 ± 7.4	
3333.0	167 ± 9.7	135 ± 1.7	113 ± 3.5	147 ± 1.9	198 ± 1.7
6666.0		49 ± 22.6 ^s	124 ± 3.9 ^s	101 ± 1.7 ^s	
10000.0	76 ± 6.1 ^s				76 ± 1.7 ^s
Trial Summary	Equivocal	Equivocal	Equivocal	Equivocal	Equivocal
Positive Control ²					
Positive Control ³				632 ± 15.2	
Positive Control ⁴					636 ± 19.0
Positive Control ⁵	856 ± 17.6	845 ± 10.9	867 ± 23.0		

Experiment Number: A92025

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 09/15/2018

Time Report Requested: 12:22:26

Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	128 ± 1.5	100 ± 5.8	111 ± 10.2	127 ± 8.4	110 ± 5.8
33.0		101 ± 4.7			
100.0	143 ± 9.0	103 ± 9.8	123 ± 2.5	124 ± 7.5	129 ± 9.2
333.0	137 ± 2.3	107 ± 7.1	152 ± 3.3	141 ± 7.0	152 ± 7.9
666.0	171 ± 2.3	118 ± 17.3	157 ± 2.1		155 ± 6.9
1000.0	169 ± 9.3	124 ± 4.5	172 ± 5.6	179 ± 23.6	172 ± 1.5
1666.0	164 ± 3.2	152 ± 10.6	180 ± 9.3		172 ± 3.0
3333.0	151 ± 9.3	162 ± 18.8	190 ± 1.7	199 ± 2.1	194 ± 10.1
6666.0	77 ± 12.1 ^s	138 ± 18.0 ^s	110 ± 31.5 ^s		136 ± 25.3 ^s
10000.0				66 ± 28.1 ^s	
Trial Summary	Equivocal	Weakly Positive	Weakly Positive	Weakly Positive	Weakly Positive
Positive Control ²			669 ± 27.7		
Positive Control ³				693 ± 14.5	674 ± 15.1
Positive Control ⁴	616 ± 3.9	576 ± 9.6			
Positive Control ⁵					

Experiment Number: A92025

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 09/15/2018

Time Report Requested: 12:22:26

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	82 ± 4.3
33.0	101 ± 7.3
100.0	92 ± 1.3
333.0	120 ± 11.8
666.0	126 ± 2.6
1000.0	138 ± 1.3
1666.0	150 ± 18.5
3333.0	185 ± 11.0
6666.0	203 ± 8.5 ^s
10000.0	
Trial Summary	Positive
Positive Control ²	
Positive Control ³	644 ± 25.3
Positive Control ⁴	
Positive Control ⁵	

Experiment Number: A92025

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 09/15/2018

Time Report Requested: 12:22:26

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	8 ± 2.0	17 ± 0.3	9 ± 1.8	7 ± 1.9	7 ± 0.9
33.0		11 ± 1.7			11 ± 0.3
100.0	12 ± 1.8	13 ± 2.7	14 ± 1.2	11 ± 1.2	13 ± 2.2
333.0	14 ± 1.5	10 ± 1.7	10 ± 3.8	14 ± 1.2	16 ± 0.9
666.0	15 ± 2.1	11 ± 0.9	13 ± 1.0	17 ± 2.3	15 ± 1.2
1000.0	19 ± 0.9	19 ± 2.5	17 ± 2.0	16 ± 2.3	21 ± 1.2
1666.0	16 ± 2.6	11 ± 1.5	15 ± 2.2	19 ± 1.2	24 ± 4.9
3333.0	16 ± 2.0	18 ± 3.8	16 ± 1.5	27 ± 0.9	35 ± 5.1
6666.0	13 ± 2.1 ^s	24 ± 4.0 ^s	10 ± 0.6 ^s	10 ± 3.2 ^s	29 ± 12.1 ^s
Trial Summary	Weakly Positive	Negative	Equivocal	Positive	Positive
Positive Control ³					
Positive Control ⁵	873 ± 17.7	891 ± 31.8			
Positive Control ⁴			115 ± 11.0		
Positive Control ⁶				109 ± 5.4	123 ± 11.3

Experiment Number: A92025

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 09/15/2018

Time Report Requested: 12:22:26

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	8 ± 1.0	6 ± 1.8	8 ± 0.3
33.0			9 ± 0.6
100.0	12 ± 1.9	14 ± 2.3	13 ± 1.5
333.0	15 ± 0.9	16 ± 2.1	14 ± 1.3
666.0	26 ± 4.0	20 ± 5.0	19 ± 1.0
1000.0	25 ± 4.7	21 ± 2.6	27 ± 3.5
1666.0	29 ± 1.8	24 ± 2.7	28 ± 1.5
3333.0	33 ± 2.3	31 ± 1.9	30 ± 2.0
6666.0	11 ± 1.9 ^s	16 ± 6.7 ^s	7 ± 0.3 ^s
Trial Summary	Positive	Positive	Positive
Positive Control ³	135 ± 3.5		
Positive Control ⁵			
Positive Control ⁴		117 ± 10.8	127 ± 10.6
Positive Control ⁶			

Experiment Number: A92025

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 09/15/2018

Time Report Requested: 12:22:26

Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	19 ± 0.9	20 ± 0.7	24 ± 3.9
100.0	24 ± 1.5	20 ± 2.3	23 ± 2.4
333.0	17 ± 3.2	26 ± 0.7	16 ± 1.9
1000.0	18 ± 2.0	23 ± 0.7	27 ± 1.8
3333.0	19 ± 0.9	21 ± 0.9	20 ± 1.8
10000.0	24 ± 4.3 ^s	16 ± 3.5 ^s	17 ± 3.2 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ³			413 ± 7.5
Positive Control ⁷	424 ± 5.1		
Positive Control ⁴		350 ± 18.2	

Experiment Number: A92025

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: bis(2-Chloroethoxy)methane
CAS Number: 111-91-1

Date Report Requested: 09/15/2018

Time Report Requested: 12:22:26

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: 2.0 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate Sodium Azide

6: 10.0 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****