

Experiment Number: A85224

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

G06: Ames Summary Data

Test Compound: **Ethylene bis acrylamide**

CAS Number: **2956-58-3**

Date Report Requested: **09/18/2018**

Time Report Requested: **04:19:08**

NTP Study Number:

A85224

Study Result:

Positive

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Test Compound: Ethylene bis acrylamide

CAS Number: 2956-58-3

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	112 ± 3.1	135 ± 3.7	120 ± 3.8	144 ± 7.8	140 ± 6.4
100.0	111 ± 4.9	133 ± 10.2	124 ± 0.9	134 ± 7.1	139 ± 5.8
333.0	124 ± 6.9	134 ± 1.5	152 ± 10.7	143 ± 13.2	143 ± 6.1
1000.0	127 ± 5.9 ^P	132 ± 8.1 ^P	163 ± 2.0 ^P	147 ± 7.0 ^P	171 ± 3.5 ^P
3333.0	123 ± 8.0 ^P	164 ± 6.9 ^P	176 ± 7.0 ^P	178 ± 6.1 ^P	175 ± 6.0 ^P
10000.0	112 ± 9.1 ^P	221 ± 11.9 ^P	210 ± 5.8 ^P	225 ± 7.2 ^P	225 ± 5.6 ^P
Trial Summary	Negative	Weakly Positive	Weakly Positive	Weakly Positive	Weakly Positive
Positive Control ²					671 ± 14.0
Positive Control ³		585 ± 20.5			
Positive Control ⁴					
Positive Control ⁵			716 ± 43.4	528 ± 21.2	
Positive Control ⁶	988 ± 32.4				

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	127 ± 1.3	123 ± 6.4
100.0	133 ± 2.7	125 ± 6.5
333.0	142 ± 5.6	120 ± 11.8
1000.0	144 ± 13.8 ^P	157 ± 1.0 ^P
3333.0	166 ± 4.9 ^P	152 ± 5.2 ^P
10000.0	221 ± 15.1 ^P	216 ± 4.2 ^P
Trial Summary	Weakly Positive	Weakly Positive
Positive Control ²		
Positive Control ³		591 ± 20.3
Positive Control ⁴	905 ± 32.3	
Positive Control ⁵		
Positive Control ⁶		

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	9 ± 2.2	12 ± 2.6	18 ± 1.5	11 ± 2.3	18 ± 3.8
100.0	10 ± 3.0	13 ± 1.2		12 ± 0.3	
333.0	9 ± 1.3	11 ± 1.8	26 ± 3.9	11 ± 1.5	16 ± 1.2
666.0			34 ± 4.3		25 ± 2.3
1000.0	11 ± 0.3 ^P	26 ± 2.3 ^P	37 ± 0.7 ^P	30 ± 3.2 ^P	45 ± 10.5 ^P
3333.0	12 ± 2.9 ^P	51 ± 9.5 ^P	74 ± 0.9 ^P	52 ± 2.6 ^P	98 ± 4.3 ^P
10000.0	9 ± 2.6 ^P	101 ± 2.4 ^P	179 ± 16.0 ^P	105 ± 5.2 ^P	165 ± 5.5 ^P
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ⁵				254 ± 24.6	239 ± 18.2
Positive Control ⁶	1055 ± 80.3				
Positive Control ⁷		208 ± 18.7	178 ± 13.6		

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Strain: TA97

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	169 ± 7.8	200 ± 9.9	196 ± 8.1
100.0	157 ± 9.9	202 ± 11.9	191 ± 16.0
333.0	172 ± 19.2	190 ± 10.9	191 ± 9.2
1000.0	154 ± 8.6 ^P	193 ± 17.7 ^P	178 ± 10.1 ^P
3333.0	149 ± 11.5 ^P	203 ± 4.0 ^P	165 ± 13.0 ^P
10000.0	166 ± 12.3 ^P	184 ± 10.2 ^P	193 ± 8.0 ^P
Trial Summary	Negative	Negative	Negative
Positive Control ³			701 ± 53.8
Positive Control ⁵		665 ± 60.6	
Positive Control ⁸	570 ± 27.6		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	15 ± 1.2	25 ± 1.9	22 ± 3.2
100.0	25 ± 3.4	18 ± 2.4	27 ± 4.6
333.0	19 ± 0.9	21 ± 1.7	24 ± 3.0
1000.0	18 ± 2.0 ^P	18 ± 1.8 ^P	22 ± 1.0 ^P
3333.0	20 ± 3.7 ^P	25 ± 2.0 ^P	22 ± 4.3 ^P
10000.0	19 ± 1.2 ^P	22 ± 1.7 ^P	23 ± 3.3 ^P
Trial Summary	Negative	Negative	Negative
Positive Control ³			746 ± 45.5
Positive Control ⁹	449 ± 15.0		
Positive Control ⁵		649 ± 23.0	

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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: 2.0 ug/Plate 2-Aminoanthracene
- 4: 2.5 ug/Plate 2-Aminoanthracene
- 5: 5.0 ug/Plate 2-Aminoanthracene
- 6: 5.0 ug/Plate Sodium Azide
- 7: 10.0 ug/Plate 2-Aminoanthracene
- 8: 50.0 ug/Plate 9-Aminoacridine
- 9: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- p: Precipitate

**** END OF REPORT ****