

Experiment Number: 756389

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

G06: Ames Summary Data

Test Compound: **Ethylenediamine**

CAS Number: **107-15-3**

Date Report Requested: **09/17/2018**

Time Report Requested: **15:08:31**

NTP Study Number:

756389

Study Result:

Weakly Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 5% Rat S9
Vehicle Control ¹					
Vehicle Control ²	109 ± 2.3	113 ± 4.5	145 ± 9.1	128 ± 8.1	160 ± 9.0
100.0	99 ± 4.2	136 ± 7.1		135 ± 15.7	
333.0	117 ± 6.0	149 ± 13.3	175 ± 16.4	183 ± 10.1	172 ± 0.9
1000.0	154 ± 6.7	155 ± 3.5	180 ± 3.7	187 ± 11.0	174 ± 3.3
1666.0		148 ± 11.3	165 ± 7.4	174 ± 4.6	195 ± 6.4
3333.0	232 ± 4.0	190 ± 5.5	197 ± 7.5	49 ± 37.2 ^s	228 ± 24.7
6666.0	76 ± 16.9 ^s		28 ± 10.7 ^s		214 ± 1.9
10000.0					
Trial Summary	Positive	Equivocal	Equivocal	Equivocal	Equivocal
Positive Control ³					
Positive Control ⁴					936 ± 84.2
Positive Control ⁵	563 ± 26.1	483 ± 14.7	446 ± 8.7	393 ± 20.9	
Positive Control ⁶					
Positive Control ⁷					

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 5% Hamster S9
Vehicle Control ¹				133 ± 3.3	
Vehicle Control ²	142 ± 2.7	123 ± 7.5	165 ± 5.0		143 ± 14.2
100.0					
333.0	167 ± 4.3	151 ± 4.4	179 ± 9.2	145 ± 1.3	136 ± 7.7
1000.0	139 ± 7.5	154 ± 2.0	185 ± 12.5	174 ± 15.7	173 ± 8.4
1666.0	209 ± 12.7		173 ± 3.7	200 ± 7.0	195 ± 12.7
3333.0	226 ± 12.7	210 ± 5.2	172 ± 3.3	219 ± 10.4	189 ± 6.9
6666.0	159 ± 66.9 ^s	251 ± 21.1	291 ± 5.4	203 ± 5.2	181 ± 22.3 ^s
10000.0		294 ± 16.5 ^s			
Trial Summary	Equivocal	Positive	Equivocal	Weakly Positive	Equivocal
Positive Control ³					1518 ± 134.6
Positive Control ⁴	482 ± 25.8			369 ± 24.1	
Positive Control ⁵					
Positive Control ⁶			301 ± 27.8		
Positive Control ⁷		606 ± 19.7			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹				
Vehicle Control ²	150 ± 18.8	130 ± 3.2	171 ± 5.9	162 ± 9.6
100.0				
333.0	179 ± 15.9	156 ± 10.1	175 ± 6.1	181 ± 7.7
1000.0	170 ± 7.8	166 ± 9.8	182 ± 3.2	186 ± 24.1
1666.0	208 ± 16.5		193 ± 4.7	202 ± 19.3
3333.0	211 ± 6.4	172 ± 5.9	200 ± 3.2	215 ± 5.5
6666.0	183 ± 14.0 ^s	198 ± 10.7	267 ± 62.7	53 ± 39.9 ^s
10000.0		187 ± 27.5 ^s		
Trial Summary	Equivocal	Weakly Positive	Weakly Positive	Equivocal
Positive Control ³	636 ± 8.4			
Positive Control ⁴		544 ± 33.9	393 ± 8.7	564 ± 13.1
Positive Control ⁵				
Positive Control ⁶				
Positive Control ⁷				

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ²	21 ± 4.8	36 ± 4.2	35 ± 2.7
100.0	22 ± 4.6		
333.0	15 ± 1.9	28 ± 0.9	27 ± 1.5
1000.0	17 ± 1.5	27 ± 1.5	23 ± 1.0
3333.0	22 ± 1.2	17 ± 2.2	38 ± 4.1
6666.0	0 ± 0.0 ^s	16 ± 2.4	19 ± 2.6
10000.0		16 ± 2.7 ^s	19 ± 3.5 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ⁴		108 ± 8.7	376 ± 14.1
Positive Control ⁸	698 ± 50.8		

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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: Vehicle Control: Water

3: 0.5 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate Sodium Azide

6: 2.0 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 2-Aminoanthracene

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****