

Experiment Number: 477362

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

G06: Ames Summary Data

Test Compound: **Ethylenediamine**

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

Date Report Requested: **09/11/2018**

Time Report Requested: **16:41:47**

NTP Study Number:

477362

Study Result:

Equivocal

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	140 ± 9.4	92 ± 13.4	93 ± 5.3	152 ± 2.4	107 ± 3.5
100.0	140 ± 5.5			140 ± 3.0	
125.0					
250.0					
333.0	141 ± 5.5	80 ± 6.2	101 ± 5.5	131 ± 9.5	112 ± 1.2
500.0					
1000.0	161 ± 5.6	103 ± 4.1	110 ± 4.7	158 ± 13.3	160 ± 1.9
2500.0					
3333.0	127 ± 2.0 ^s	73 ± 16.8 ^s	89 ± 4.2 ^s	168 ± 13.4 ^s	156 ± 14.4 ^s
5000.0					
6666.0		44 ± 25.5 ^s	74 ± 4.2 ^s		121 ± 37.5 ^s
7500.0					
10000.0	222 ± 7.3 ^s	0 ± 0.0 ^s	51 ± 22.5 ^s	219 ± 13.1 ^s	297 ± 55.8 ^s
Trial Summary	Equivocal	Negative	Negative	Equivocal	Weakly Positive
Positive Control ²					
Positive Control ³	375 ± 27.4	221 ± 28.5			
Positive Control ⁴			946 ± 45.8		
Positive Control ⁵					
Positive Control ⁶				318 ± 11.6	287 ± 15.2

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	140 ± 10.8	80 ± 3.0	135 ± 8.6	112 ± 6.3	121 ± 5.4
100.0			141 ± 4.2		
125.0	136 ± 5.2				109 ± 4.0
250.0	142 ± 17.5				121 ± 5.8
333.0		87 ± 7.4	136 ± 6.6	111 ± 5.5	
500.0	135 ± 9.5				119 ± 3.8
1000.0	142 ± 5.0	93 ± 9.9	155 ± 12.7	152 ± 5.0	136 ± 5.8
2500.0	186 ± 2.6				183 ± 4.8
3333.0		72 ± 2.2 ^s	158 ± 7.0 ^s	167 ± 8.3 ^s	
5000.0	170 ± 12.6 ^s				167 ± 7.0 ^s
6666.0		70 ± 4.4 ^s		190 ± 22.0 ^s	
7500.0	163 ± 16.6 ^s				99 ± 61.7 ^s
10000.0	214 ± 40.5 ^s	0 ± 0.0 ^s	1 ± 0.6 ^s	149 ± 33.7 ^s	63 ± 28.9 ^s
Trial Summary	Equivocal	Negative	Negative	Equivocal	Equivocal
Positive Control ²		409 ± 17.8			
Positive Control ³					
Positive Control ⁴					
Positive Control ⁵			490 ± 7.9	438 ± 21.7	1438 ± 33.9
Positive Control ⁶	494 ± 21.3				

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	28 ± 5.5	7 ± 0.3	11 ± 1.9	7 ± 1.3	9 ± 1.5
333.0	26 ± 3.5	9 ± 1.3	15 ± 1.8	10 ± 1.5	11 ± 2.0
1000.0	29 ± 1.5	13 ± 0.3	21 ± 2.3	12 ± 3.8	21 ± 2.2
3333.0	5 ± 1.2 ^s	7 ± 2.7 ^s	6 ± 2.7 ^s	6 ± 0.7 ^s	18 ± 0.6 ^s
6666.0	4 ± 1.5 ^s	1 ± 0.7 ^s	2 ± 0.9 ^s	2 ± 1.7 ^s	3 ± 3.0 ^s
10000.0	2 ± 1.9 ^s	4 ± 2.6 ^s	0 ± 0.0 ^s	1 ± 0.7 ^s	27 ± 5.7 ^s
Trial Summary	Negative	Negative	Equivocal	Negative	Equivocal
Positive Control ²				29 ± 2.8	
Positive Control ³	90 ± 5.0				
Positive Control ⁵					87 ± 3.0
Positive Control ⁶		97 ± 8.7	43 ± 22.6		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	21 ± 4.3	33 ± 6.5	47 ± 2.9
100.0	24 ± 6.5	39 ± 13.7	28 ± 1.3
333.0	Toxic	24 ± 4.6	26 ± 2.0
1000.0	18 ± 4.1	29 ± 5.4	30 ± 2.5
3333.0	17 ± 1.9 ^s	47 ± 2.4 ^s	29 ± 3.0
10000.0	17 ± 4.3 ^s	20 ± 9.8 ^s	11 ± 2.5 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			144 ± 12.1
Positive Control ⁵		103 ± 3.4	
Positive Control ⁷	209 ± 13.0		

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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: Water

2: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****