

Experiment Number: 929820

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Tetraethylenepentamine

CAS Number: 112-57-2

Date Report Requested: 09/17/2018

Time Report Requested: 07:59:42

NTP Study Number: 929820

Study Result: 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	130 ± 5.3	116 ± 4.3	126 ± 6.4	104 ± 2.8	131 ± 3.2
33.0		127 ± 2.6		134 ± 6.0	
100.0	196 ± 7.6	204 ± 7.9	170 ± 7.3	189 ± 15.2	158 ± 6.0
333.0	344 ± 24.1	337 ± 27.7	270 ± 43.1	315 ± 21.1	244 ± 16.2
1000.0	425 ± 11.6	441 ± 49.2	374 ± 19.7	442 ± 0.6	338 ± 32.1
3333.0	517 ± 23.7	Toxic	403 ± 9.8	274 ± 18.7	384 ± 41.9
10000.0	381 ± 54.8		357 ± 38.7		184 ± 99.0 ^s
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			484 ± 15.3	690 ± 18.0	1322 ± 122.9
Positive Control ³	319 ± 18.0	397 ± 20.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	127 ± 3.6
33.0	141 ± 2.3
100.0	154 ± 1.8
333.0	233 ± 9.0
1000.0	285 ± 6.1
3333.0	338 ± 6.0
10000.0	
Trial Summary	Positive
Positive Control ²	792 ± 20.3
Positive Control ³	

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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	19 ± 2.8	25 ± 1.2	10 ± 1.3	8 ± 1.2	5 ± 0.6
100.0	20 ± 4.0	21 ± 3.0	10 ± 2.8	13 ± 2.0	6 ± 0.3
333.0	23 ± 2.2	35 ± 4.4	8 ± 2.8	10 ± 2.5	8 ± 0.9
1000.0	30 ± 3.1	42 ± 2.2	18 ± 2.0	13 ± 1.3	10 ± 3.6
3333.0	32 ± 2.2	39 ± 1.5	27 ± 1.9	33 ± 3.3	14 ± 1.5
6666.0		Toxic		17 ± 0.3	
10000.0	0 ± 0.0 ^s		15 ± 8.0 ^s		Toxic
Trial Summary	Equivocal	Equivocal	Equivocal	Equivocal	Equivocal
Positive Control ³	313 ± 9.0	359 ± 15.0			
Positive Control ⁴			198 ± 7.5	114 ± 14.3	340 ± 5.5

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.5
100.0	9 ± 1.0
333.0	11 ± 1.3
1000.0	13 ± 2.3
3333.0	24 ± 1.5
6666.0	26 ± 4.2
10000.0	
Trial Summary	Equivocal
Positive Control ³	
Positive Control ⁴	213 ± 8.8

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Test Compound: Tetraethylenepentamine
CAS Number: 112-57-2

Date Report Requested: 09/17/2018
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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.9	5 ± 0.6	6 ± 0.3
100.0	8 ± 2.3	6 ± 1.9	5 ± 1.5
333.0	6 ± 1.5	6 ± 0.3	5 ± 1.2
1000.0	9 ± 2.6	12 ± 1.5	9 ± 2.0
3333.0	12 ± 2.9	9 ± 1.5	7 ± 2.4
10000.0	4 ± 1.9 ^s	4 ± 2.2 ^s	4 ± 2.0 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ⁴		138 ± 8.4	511 ± 10.7
Positive Control ⁵	375 ± 36.1		

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Test Compound: Tetraethylenepentamine

CAS Number: 112-57-2

Date Report Requested: 09/17/2018

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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	17 ± 0.9	14 ± 2.0	17 ± 2.6	15 ± 1.5	23 ± 4.4
100.0	21 ± 4.4	18 ± 3.0	28 ± 1.5	23 ± 0.7	23 ± 4.0
333.0	34 ± 1.9	31 ± 2.1	37 ± 5.8	30 ± 4.0	33 ± 2.9
1000.0	51 ± 7.5	37 ± 1.7	56 ± 5.6	43 ± 4.5	38 ± 6.7
3333.0	56 ± 7.5	40 ± 0.9	53 ± 7.5	49 ± 0.9	49 ± 7.9
6666.0		Toxic		16 ± 2.0	
10000.0	Toxic		24 ± 2.6 ^s		7 ± 3.5 ^s
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			330 ± 20.7	325 ± 23.3	1276 ± 31.8
Positive Control ⁶	520 ± 46.8	373 ± 15.6			

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Test Compound: Tetraethylenepentamine
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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	15 ± 1.5
100.0	26 ± 1.8
333.0	37 ± 3.2
1000.0	42 ± 5.2
3333.0	47 ± 3.4
6666.0	46 ± 4.3
10000.0	
Trial Summary	Positive
Positive Control ²	383 ± 22.4
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: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

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 ****