

Experiment Number: A45635

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

G06: Ames Summary Data

Test Compound: **Triethylenemelamine**

CAS Number: 51-18-3

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

Time Report Requested: **01:17:15**

NTP Study Number:

A45635

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 30% Rat S9
Vehicle Control ¹	126 ± 6.7	119 ± 7.9	146 ± 4.8	134 ± 8.1	137 ± 6.1
0.3		133 ± 6.3			
1.0		149 ± 4.2		152 ± 6.8	
3.0		185 ± 5.5		237 ± 28.8	
10.0	373 ± 9.4	259 ± 6.9	326 ± 9.3	290 ± 11.7	440 ± 15.3
33.0	502 ± 15.0	621 ± 7.2	434 ± 22.3	473 ± 8.8	601 ± 19.8
100.0	520 ± 8.8		628 ± 24.2	526 ± 32.6	642 ± 5.8
333.0	405 ± 11.7 ^s		747 ± 16.8		336 ± 40.5 ^s
1000.0	95 ± 4.3 ^s		311 ± 115.0 ^s		121 ± 14.8 ^s
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					
Positive Control ³					907 ± 102.3
Positive Control ⁴	850 ± 31.7	922 ± 38.1	901 ± 16.9	840 ± 9.6	

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	138 ± 4.4	140 ± 4.9	148 ± 8.5	143 ± 4.4	129 ± 10.8
0.3	141 ± 3.2				126 ± 3.5
1.0	177 ± 4.4		185 ± 3.5		164 ± 4.6
3.0	256 ± 15.6		285 ± 26.2		264 ± 8.4
10.0	431 ± 24.4	468 ± 17.1	464 ± 24.3	524 ± 12.4	511 ± 11.5
33.0	630 ± 29.5	651 ± 68.9	648 ± 17.1	706 ± 34.2	826 ± 12.8
100.0		926 ± 15.3	837 ± 28.5	767 ± 39.1	
333.0		852 ± 41.7		233 ± 23.5 ^s	
1000.0		500 ± 51.3 ^s		166 ± 21.9 ^s	
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²				828 ± 40.1	964 ± 16.0
Positive Control ³	747 ± 20.9	559 ± 18.8	669 ± 27.3		
Positive Control ⁴					

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	160 ± 6.2	130 ± 7.2
0.3		
1.0		164 ± 11.8
3.0		280 ± 8.8
10.0	485 ± 7.8	444 ± 22.3
33.0	750 ± 19.2	672 ± 32.7
100.0	878 ± 38.1	831 ± 27.1
333.0	991 ± 42.4	
1000.0	714 ± 93.7 ^s	
Trial Summary	Positive	Positive
Positive Control ²	687 ± 20.5	817 ± 9.3
Positive Control ³		
Positive Control ⁴		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 30% Rat S9
Vehicle Control ¹	17 ± 2.6	22 ± 1.8	28 ± 1.8	21 ± 2.6	17 ± 1.5
1.0				21 ± 1.5	
3.0				28 ± 1.3	
10.0	18 ± 0.6	29 ± 2.5	54 ± 4.8	41 ± 3.7	61 ± 9.3
16.0		50 ± 2.3			
33.0	56 ± 5.7	78 ± 6.1	80 ± 2.2	86 ± 5.2	107 ± 11.9
66.0		104 ± 3.5			
100.0	90 ± 2.4	103 ± 2.0	229 ± 14.3	157 ± 22.5	156 ± 16.5
333.0	51 ± 4.7 ^s		159 ± 9.4		47 ± 8.8 ^s
1000.0	19 ± 2.3 ^s		89 ± 17.2 ^s		24 ± 4.9 ^s
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					
Positive Control ⁵	460 ± 13.9	438 ± 10.5	432 ± 18.4	461 ± 8.8	
Positive Control ³					652 ± 23.5

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Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	24 ± 2.4	26 ± 2.9	24 ± 1.8	20 ± 4.4	25 ± 3.8
1.0	25 ± 2.3		28 ± 3.5		28 ± 3.8
3.0	37 ± 2.3		41 ± 3.3		45 ± 4.1
10.0	52 ± 3.2	74 ± 2.8	56 ± 6.1	58 ± 3.8	56 ± 2.3
16.0					
33.0	111 ± 7.5	142 ± 8.2	197 ± 45.6	125 ± 14.2	107 ± 8.8
66.0					
100.0	143 ± 7.1	268 ± 12.8	258 ± 36.2	129 ± 12.7	152 ± 17.6
333.0		208 ± 39.7		54 ± 14.2 ^s	
1000.0		112 ± 16.8 ^s		22 ± 3.4 ^s	
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²				905 ± 18.6	827 ± 32.9
Positive Control ⁵					
Positive Control ³	700 ± 2.1	368 ± 12.8	488 ± 21.6		

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	28 ± 3.8	22 ± 3.1
1.0		23 ± 2.3
3.0		27 ± 2.7
10.0	67 ± 6.7	51 ± 3.3
16.0		
33.0	126 ± 9.9	173 ± 15.0
66.0		
100.0	192 ± 9.9	220 ± 13.2
333.0	307 ± 4.7	
1000.0	101 ± 22.8 ^s	
Trial Summary	Positive	Positive
Positive Control ²	424 ± 22.4	518 ± 11.1
Positive Control ⁵		
Positive Control ³		

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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: 2.0 ug/Plate 2-Aminoanthracene

3: 5.0 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****