

Experiment Number: **042347**

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

**G06: Ames Summary Data**

Test Compound: **Monoethylamine**

CAS Number: **75-04-7**

Date Report Requested: **09/14/2018**

Time Report Requested: **20:27:12**

**NTP Study Number:**

042347

**Study Result:**

Negative

Experiment Number: 042347

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Monoethylamine

CAS Number: 75-04-7

Date Report Requested: 09/14/2018

Time Report Requested: 20:27:12

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	141 ± 5.9	146 ± 10.4	107 ± 8.2	121 ± 6.5	110 ± 5.5
100.0	128 ± 12.9	118 ± 5.1	123 ± 9.9	136 ± 11.5	133 ± 12.2
333.0	112 ± 17.2	129 ± 9.4	133 ± 4.9	116 ± 10.3	130 ± 5.6
1000.0	112 ± 8.5	108 ± 5.2	122 ± 6.3	108 ± 9.3	132 ± 1.9
3333.0	110 ± 9.8	118 ± 9.0	97 ± 2.3	94 ± 11.1	137 ± 7.3
10000.0	Toxic	0 ± 0.0 <sup>s</sup>	68 ± 14.4 <sup>s</sup>	41 ± 20.5 <sup>s</sup>	103 ± 11.1 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	417 ± 10.7	377 ± 8.7			
Positive Control <sup>3</sup>			439 ± 14.4	456 ± 24.8	683 ± 19.1

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	121 ± 2.7
100.0	114 ± 8.6
333.0	132 ± 5.7
1000.0	143 ± 9.4
3333.0	121 ± 16.9
10000.0	0 ± 0.0 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	966 ± 42.3

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Test Compound: Monoethylamine

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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 <sup>1</sup>	35 ± 2.7	33 ± 2.3	20 ± 0.3	15 ± 0.3	17 ± 1.3
100.0	27 ± 4.7	30 ± 4.9	14 ± 3.1	10 ± 3.0	8 ± 4.2
333.0	30 ± 0.9	25 ± 3.5	7 ± 3.0	11 ± 3.8	6 ± 1.2
1000.0	24 ± 3.6	30 ± 2.7	12 ± 0.3	10 ± 0.9	8 ± 2.6
3333.0	21 ± 2.8	7 ± 4.1	8 ± 3.7	18 ± 1.7	22 ± 4.4
10000.0	Toxic	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	10 ± 4.9 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	476 ± 28.6	342 ± 42.1			
Positive Control <sup>4</sup>			324 ± 11.1	178 ± 24.1	314 ± 9.5

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G06: Ames Summary Data

Test Compound: Monoethylamine

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Time Report Requested: 20:27:12

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	11 ± 2.6
100.0	10 ± 2.3
333.0	9 ± 1.7
1000.0	11 ± 2.0
3333.0	15 ± 3.5
10000.0	0 ± 0.0 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	245 ± 10.7

Experiment Number: 042347

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## G06: Ames Summary Data

Test Compound: Monoethylamine

CAS Number: 75-04-7

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## Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	11 ± 3.4	5 ± 1.5	14 ± 2.9	6 ± 1.7	7 ± 3.1
100.0	7 ± 3.1	11 ± 2.1	9 ± 2.3	6 ± 1.0	5 ± 0.3
333.0	9 ± 2.0	5 ± 1.3	14 ± 0.9	7 ± 1.2	8 ± 3.5
1000.0	5 ± 1.0	6 ± 3.2	11 ± 1.9	4 ± 0.7	8 ± 1.3
3333.0	6 ± 1.0	4 ± 1.7	10 ± 3.5	3 ± 0.7	8 ± 2.0
10000.0	Toxic	0 ± 0.0 <sup>s</sup>	11 ± 2.0	0 ± 0.0 <sup>s</sup>	1 ± 0.7 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			292 ± 1.9	135 ± 8.7	319 ± 28.5
Positive Control <sup>5</sup>	151 ± 11.7	350 ± 41.7			

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G06: Ames Summary Data

Test Compound: Monoethylamine

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Time Report Requested: 20:27:12

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	5 ± 1.5
100.0	7 ± 1.2
333.0	4 ± 1.0
1000.0	7 ± 1.2
3333.0	0 ± 0.0 <sup>s</sup>
10000.0	Toxic
Trial Summary	Negative
Positive Control <sup>4</sup>	406 ± 11.5
Positive Control <sup>5</sup>	

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Test Compound: Monoethylamine

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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 <sup>1</sup>	18 ± 0.9	16 ± 2.0	44 ± 6.5	25 ± 1.9	33 ± 3.2
100.0	15 ± 1.9	17 ± 1.7	34 ± 4.6	27 ± 3.5	30 ± 2.8
333.0	13 ± 2.3	13 ± 3.1	31 ± 2.4	25 ± 0.6	34 ± 1.7
1000.0	16 ± 2.3	12 ± 3.2	31 ± 1.2	32 ± 2.3	29 ± 5.7
3333.0	14 ± 1.2	8 ± 4.3 <sup>s</sup>	26 ± 3.6	23 ± 4.5	28 ± 5.8
10000.0	Toxic	Toxic	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	4 ± 4.3 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			313 ± 4.1	326 ± 10.7	691 ± 134.3
Positive Control <sup>6</sup>	749 ± 43.9	475 ± 108.7			



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Test Compound: Monoethylamine

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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	26 ± 5.7
100.0	32 ± 2.3
333.0	32 ± 3.2
1000.0	34 ± 4.7
3333.0	0 ± 0.0 <sup>s</sup>
10000.0	Toxic
Trial Summary	Negative
Positive Control <sup>3</sup>	764 ± 21.3
Positive Control <sup>6</sup>	

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## LEGEND

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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 Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

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 \*\*