

Experiment Number: 406286

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Methylamine

CAS Number: 74-89-5

Date Report Requested: 09/14/2018

Time Report Requested: 17:20:27

NTP Study Number:

406286

Study Result:

Negative

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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	156 ± 10.4	95 ± 3.2	224 ± 3.5	134 ± 5.6	233 ± 11.9
33.0	160 ± 12.3		201 ± 11.3		239 ± 6.7
100.0	170 ± 13.1	91 ± 9.3	231 ± 10.9	154 ± 2.5	228 ± 8.7
333.0	143 ± 5.1	81 ± 2.1	220 ± 9.2	157 ± 2.1	239 ± 8.1
1000.0	160 ± 7.2	78 ± 1.5	211 ± 9.6	135 ± 7.3	202 ± 16.2
3333.0	144 ± 7.1	94 ± 16.6	196 ± 12.7	131 ± 9.5	197 ± 12.2
10000.0		4 ± 0.5		Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1535 ± 52.0	2245 ± 21.7	1665 ± 56.7
Positive Control ³	1467 ± 66.6	485 ± 66.6			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	143 ± 5.9
33.0	
100.0	140 ± 5.6
333.0	128 ± 1.5
1000.0	138 ± 9.0
3333.0	127 ± 1.3
10000.0	Toxic
Trial Summary	Negative
Positive Control ²	2604 ± 41.7
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	20 ± 0.6	3 ± 0.3	22 ± 0.9	10 ± 2.2	23 ± 1.7
33.0	22 ± 3.6		23 ± 1.0	9 ± 2.6	17 ± 0.7
100.0	20 ± 7.0	3 ± 0.3	18 ± 1.2	7 ± 0.9	15 ± 2.9
333.0	23 ± 1.9	3 ± 0.9	21 ± 0.7	6 ± 1.2	15 ± 1.9
1000.0	17 ± 1.8	2 ± 0.6	14 ± 4.1	6 ± 1.3	13 ± 1.9
3333.0	16 ± 0.9	3 ± 0.7	1 ± 0.7	2 ± 1.0	2 ± 1.2
10000.0		0 ± 0.3			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			457 ± 28.8	74 ± 7.4	430 ± 18.2
Positive Control ³	1130 ± 71.4	1660 ± 62.8			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 2.1
33.0	9 ± 0.3
100.0	9 ± 0.6
333.0	6 ± 0.9
1000.0	6 ± 0.7
3333.0	Toxic
10000.0	
Trial Summary	Negative
Positive Control ⁴	74 ± 13.8
Positive Control ³	

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Test Compound: Methylamine

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Date Report Requested: 09/14/2018

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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 ¹	8 ± 2.0	3 ± 0.3	12 ± 2.2	5 ± 0.9	11 ± 1.5
33.0	7 ± 1.5		15 ± 1.3	5 ± 1.5	9 ± 1.3
100.0	8 ± 2.2	3 ± 0.3	14 ± 2.5	5 ± 1.8	10 ± 2.3
333.0	9 ± 2.3	1 ± 0.3	12 ± 2.0	4 ± 0.3	14 ± 1.7
1000.0	6 ± 1.5	2 ± 0.3	15 ± 1.5	3 ± 1.5	12 ± 1.8
3333.0	7 ± 1.5	4 ± 2.5	1 ± 0.3	0 ± 0.3	13 ± 7.2
10000.0		1 ± 0.7			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			256 ± 52.9	154 ± 31.4	214 ± 9.1
Positive Control ⁵	199 ± 57.9	152 ± 48.2			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	4 ± 1.0
33.0	
100.0	6 ± 1.9
333.0	4 ± 1.5
1000.0	5 ± 1.7
3333.0	4 ± 0.7
10000.0	5 ± 0.7
Trial Summary	Negative
Positive Control ⁴	107 ± 23.1
Positive Control ⁵	

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Methylamine

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Date Report Requested: 09/14/2018

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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	28 ± 2.1	15 ± 2.7	39 ± 3.5	22 ± 3.8	41 ± 3.2
33.0	16 ± 2.0		40 ± 3.5		39 ± 0.9
100.0	22 ± 4.4	13 ± 1.5	35 ± 2.1	26 ± 4.7	35 ± 8.2
333.0	24 ± 1.2	18 ± 3.3	36 ± 6.6	20 ± 2.3	42 ± 1.0
1000.0	19 ± 2.3	16 ± 2.9	30 ± 3.8	23 ± 1.5	43 ± 2.0
3333.0	14 ± 0.9	15 ± 3.2	20 ± 3.9	20 ± 2.9	26 ± 0.6
10000.0		0 ± 0.0		Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			632 ± 39.3	1053 ± 102.0	1139 ± 15.2
Positive Control ⁶	281 ± 33.7	167 ± 7.4			

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Test Compound: Methylamine
CAS Number: 74-89-5

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	20 ± 3.4
33.0	
100.0	27 ± 4.7
333.0	20 ± 2.0
1000.0	24 ± 1.3
3333.0	18 ± 3.8
10000.0	Toxic
Trial Summary	Negative
Positive Control ²	1945 ± 77.7
Positive Control ⁶	

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Test Compound: **Methylamine**

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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: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****