

Experiment Number: **A09492**

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

G06: Ames Summary Data

Test Compound: **2-Methylpropanenitrile**

CAS Number: **78-82-0**

Date Report Requested: **09/15/2018**

Time Report Requested: **20:05:21**

NTP Study Number:

A09492

Study Result:

Negative

Experiment Number: A09492

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Test Compound: 2-Methylpropanenitrile

CAS Number: 78-82-0

Date Report Requested: 09/15/2018

Time Report Requested: 20:05:21

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	113 ± 2.6	103 ± 1.2	93 ± 5.4	115 ± 0.9	92 ± 7.9
100.0	99 ± 6.4	108 ± 2.2	105 ± 3.2	98 ± 2.7	105 ± 9.5
333.0	106 ± 4.3	106 ± 4.5	98 ± 6.7	104 ± 17.0	101 ± 6.1
1000.0	105 ± 10.3	105 ± 8.1	97 ± 2.3	120 ± 4.4	94 ± 11.4
3333.0	126 ± 2.3	133 ± 1.8	103 ± 6.1	112 ± 6.5	102 ± 2.1
10000.0	101 ± 10.0	112 ± 2.3	109 ± 3.7	106 ± 5.0	105 ± 7.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					540 ± 17.1
Positive Control ³			528 ± 15.0		
Positive Control ⁴	854 ± 21.4	917 ± 39.7			
Positive Control ⁵				540 ± 7.8	

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Test Compound: 2-Methylpropanenitrile
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Date Report Requested: 09/15/2018
Time Report Requested: 20:05:21

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	112 ± 4.1
100.0	98 ± 6.4
333.0	98 ± 6.2
1000.0	111 ± 1.0
3333.0	106 ± 8.2
10000.0	95 ± 3.0
Trial Summary	Negative
Positive Control ²	
Positive Control ³	647 ± 23.4
Positive Control ⁴	
Positive Control ⁵	

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Test Compound: 2-Methylpropanenitrile
CAS Number: 78-82-0

Date Report Requested: 09/15/2018

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	12 ± 1.5	15 ± 0.6	7 ± 0.6	14 ± 2.1	5 ± 0.7
100.0	12 ± 1.5	9 ± 2.4	9 ± 2.0	12 ± 1.7	8 ± 2.0
333.0	13 ± 0.9	10 ± 1.5	10 ± 2.0	8 ± 2.8	9 ± 2.6
1000.0	18 ± 1.9	10 ± 0.9	11 ± 2.6	9 ± 2.3	6 ± 1.2
3333.0	10 ± 2.0	10 ± 0.9	9 ± 2.2	12 ± 2.4	8 ± 2.3
10000.0	11 ± 2.5	10 ± 2.2	6 ± 1.3	9 ± 1.5	7 ± 0.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					92 ± 9.5
Positive Control ⁴	1010 ± 12.9	831 ± 16.0			
Positive Control ⁵			58 ± 4.0		
Positive Control ⁶				123 ± 12.5	

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Test Compound: 2-Methylpropanenitrile
CAS Number: 78-82-0

Date Report Requested: 09/15/2018
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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 2.9
100.0	11 ± 3.2
333.0	14 ± 2.6
1000.0	11 ± 0.7
3333.0	11 ± 0.9
10000.0	10 ± 1.5
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	224 ± 6.1
Positive Control ⁶	

Experiment Number: A09492

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Test Compound: 2-Methylpropanenitrile
CAS Number: 78-82-0

Date Report Requested: 09/15/2018

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	112 ± 4.4	121 ± 5.8	149 ± 8.7	120 ± 6.0	115 ± 10.7
100.0	104 ± 2.6	119 ± 4.4	144 ± 3.5	142 ± 7.0	116 ± 7.4
333.0	116 ± 4.3	120 ± 9.0	144 ± 9.7	155 ± 4.3	119 ± 5.8
1000.0	130 ± 8.1	127 ± 13.0	147 ± 10.7	153 ± 8.3	101 ± 7.4
3333.0	120 ± 10.5	149 ± 5.8	153 ± 6.9	145 ± 19.9	119 ± 15.5
10000.0	112 ± 3.4	128 ± 6.3	157 ± 16.2	131 ± 10.1	117 ± 16.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					616 ± 34.1
Positive Control ³			538 ± 10.1		
Positive Control ⁵				571 ± 9.8	
Positive Control ⁷	558 ± 25.1	639 ± 19.5			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	133 ± 4.7
100.0	132 ± 12.1
333.0	131 ± 5.2
1000.0	108 ± 4.3
3333.0	106 ± 2.6
10000.0	116 ± 3.4
Trial Summary	Negative
Positive Control ²	
Positive Control ³	938 ± 62.0
Positive Control ⁵	
Positive Control ⁷	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	15 ± 0.6	18 ± 3.3	23 ± 2.3	19 ± 2.3	20 ± 0.9
100.0	13 ± 2.6	20 ± 2.3	28 ± 0.3	19 ± 1.8	24 ± 2.4
333.0	13 ± 1.9	20 ± 3.0	22 ± 1.0	19 ± 3.3	22 ± 3.3
1000.0	20 ± 2.9	22 ± 4.9	26 ± 3.5	21 ± 4.3	23 ± 1.7
3333.0	18 ± 3.5	23 ± 7.4	29 ± 4.9	13 ± 1.0	21 ± 1.9
10000.0	13 ± 1.8	13 ± 2.3	21 ± 2.0	16 ± 2.6	20 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					559 ± 9.0
Positive Control ³			355 ± 13.5		
Positive Control ⁸	409 ± 3.6	682 ± 38.0			
Positive Control ⁵				251 ± 23.0	

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CAS Number: 78-82-0

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	18 ± 1.2
100.0	20 ± 2.1
333.0	22 ± 5.4
1000.0	15 ± 1.5
3333.0	19 ± 1.2
10000.0	9 ± 2.6
Trial Summary	Negative
Positive Control ²	
Positive Control ³	352 ± 18.7
Positive Control ⁸	
Positive Control ⁵	

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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: Dimethyl Sulfoxide
- 2: 1.0 ug/Plate 2-Aminoanthracene
- 3: 2.0 ug/Plate 2-Aminoanthracene
- 4: 5.0 ug/Plate Sodium Azide
- 5: 5.0 ug/Plate 2-Aminoanthracene
- 6: 10.0 ug/Plate 2-Aminoanthracene
- 7: 50.0 ug/Plate 9-Aminoacridine
- 8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **