

Experiment Number: A47044

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 3-Methoxypropionitrile

CAS Number: 110-67-8

Date Report Requested: 09/17/2018

Time Report Requested: 03:21:46

NTP Study Number:

A47044

Study Result:

Equivocal

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	125 ± 11.0	125 ± 5.5	98 ± 5.8		106 ± 8.1
Vehicle Control ²				81 ± 3.8	
100.0	122 ± 9.6	142 ± 2.5	99 ± 9.3	78 ± 2.0	111 ± 6.8
333.0	115 ± 12.5	124 ± 6.7	122 ± 4.5	81 ± 3.9	122 ± 5.8
1000.0	115 ± 3.8	136 ± 0.9	145 ± 3.8	76 ± 3.8	129 ± 3.3
3333.0	120 ± 1.7	127 ± 3.5	123 ± 9.1	71 ± 3.6	112 ± 8.5
10000.0	123 ± 6.7	131 ± 5.8	128 ± 13.8	79 ± 8.5	115 ± 11.6
Trial Summary	Equivocal	Negative	Equivocal	Negative	Negative
Positive Control ³					
Positive Control ⁴	375 ± 9.8	331 ± 14.9			
Positive Control ⁵			407 ± 66.6	239 ± 39.9	
Positive Control ⁶					
Positive Control ⁷					644 ± 118.9

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	148 ± 12.7	117 ± 4.0
Vehicle Control ²		
100.0	138 ± 19.2	120 ± 6.7
333.0	136 ± 9.0	114 ± 10.7
1000.0	147 ± 4.6	100 ± 9.9
3333.0	136 ± 9.4	99 ± 5.4
10000.0	128 ± 13.9	109 ± 3.5
Trial Summary	Negative	Negative
Positive Control ³	648 ± 36.8	
Positive Control ⁴		
Positive Control ⁵		
Positive Control ⁶		702 ± 31.2
Positive Control ⁷		

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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	14 ± 2.6	17 ± 1.8	15 ± 1.5	13 ± 0.6	24 ± 1.2
100.0	7 ± 3.8	17 ± 1.8	15 ± 1.7	12 ± 1.2	22 ± 3.8
333.0	13 ± 1.5	21 ± 3.4	17 ± 1.5	12 ± 1.0	21 ± 1.7
1000.0	12 ± 1.2	18 ± 0.6	16 ± 3.5	11 ± 1.7	23 ± 0.3
3333.0	11 ± 0.3	19 ± 2.1	17 ± 3.2	12 ± 0.6	18 ± 3.5
10000.0	11 ± 0.7	19 ± 1.8	16 ± 3.5	10 ± 2.6	20 ± 0.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					414 ± 34.4
Positive Control ⁴	171 ± 9.2	227 ± 15.7			
Positive Control ⁶					
Positive Control ⁷			162 ± 15.0	108 ± 16.6	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	14 ± 1.5
100.0	12 ± 1.8
333.0	12 ± 1.5
1000.0	13 ± 0.6
3333.0	13 ± 1.2
10000.0	12 ± 2.7
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁶	145 ± 17.5
Positive Control ⁷	

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Test Compound: 3-Methoxypropionitrile

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Strain: TA1537

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 1.2
100.0	9 ± 0.9
333.0	11 ± 0.9
1000.0	9 ± 1.2
3333.0	14 ± 1.8
10000.0	11 ± 1.0
Trial Summary	Negative
Positive Control ⁷	155 ± 5.8

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ²			82 ± 4.0		
Vehicle Control ¹	99 ± 2.0	160 ± 9.9		198 ± 10.2	146 ± 3.8
100.0	108 ± 4.3	153 ± 6.9	82 ± 2.7	219 ± 4.7	134 ± 5.9
333.0	125 ± 7.5	174 ± 12.9	77 ± 2.9	197 ± 6.6	132 ± 9.5
667.0					
1000.0	122 ± 9.0	158 ± 7.2	81 ± 2.6	219 ± 9.4	181 ± 26.9
2000.0					
3333.0	102 ± 9.5	195 ± 7.8	95 ± 7.5	214 ± 3.0	126 ± 3.2
10000.0	104 ± 20.3	177 ± 13.7	95 ± 2.3	207 ± 7.4	168 ± 26.4
Trial Summary	Negative	Equivocal	Negative	Negative	Equivocal
Positive Control ⁵					
Positive Control ⁷				803 ± 51.7	426 ± 33.3
Positive Control ⁸	465 ± 9.9	397 ± 23.0	178 ± 15.6		

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Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ²				
Vehicle Control ¹	167 ± 5.7	175 ± 11.8	86 ± 5.1	97 ± 5.0
100.0	181 ± 8.5	187 ± 10.7	111 ± 0.9	143 ± 3.3
333.0	149 ± 13.4	145 ± 8.1	117 ± 11.1	133 ± 6.4
667.0	192 ± 15.2			
1000.0	144 ± 15.4	170 ± 7.8	117 ± 4.9	156 ± 5.0
2000.0	169 ± 3.5			
3333.0		176 ± 11.9	107 ± 7.4	151 ± 7.5
10000.0		190 ± 9.2	114 ± 0.9	129 ± 10.6
Trial Summary	Negative	Negative	Equivocal	Equivocal
Positive Control ⁵		1868 ± 77.6		
Positive Control ⁷	476 ± 12.7		898 ± 28.5	1069 ± 131.7
Positive Control ⁸				

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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	22 ± 1.5	18 ± 0.9	23 ± 1.5	27 ± 1.2	30 ± 1.9
100.0	19 ± 0.3	13 ± 1.5	25 ± 3.4	24 ± 4.3	26 ± 3.8
333.0	21 ± 1.8	14 ± 2.4	26 ± 3.6	27 ± 4.1	29 ± 5.2
1000.0	19 ± 1.0	17 ± 2.1	28 ± 3.3	26 ± 2.4	28 ± 2.5
3333.0	18 ± 2.8	17 ± 3.1	24 ± 0.9	24 ± 1.2	30 ± 1.0
10000.0	18 ± 0.9	19 ± 1.5	22 ± 1.9	21 ± 1.2	27 ± 2.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			222 ± 12.4		517 ± 10.5
Positive Control ⁹	236 ± 33.7	87 ± 6.2			
Positive Control ⁶				308 ± 14.4	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	26 ± 1.5
100.0	21 ± 2.4
333.0	25 ± 2.4
1000.0	18 ± 1.2
3333.0	22 ± 1.2
10000.0	18 ± 2.3
Trial Summary	Negative
Positive Control ³	
Positive Control ⁹	
Positive Control ⁶	772 ± 16.3

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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: Vehicle Control: Dimethyl Sulfoxide

3: 0.4 ug/Plate 2-Aminoanthracene

4: 0.5 ug/Plate Sodium Azide

5: 0.75 ug/Plate 2-Aminoanthracene

6: 1.0 ug/Plate 2-Aminoanthracene

7: 2.0 ug/Plate 2-Aminoanthracene

8: 24.0 ug/Plate 9-Aminoacridine

9: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****