

Experiment Number: 365543

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

G06: Ames Summary Data

Test Compound: **3-Hydroxypropanenitrile**

CAS Number: **109-78-4**

Date Report Requested: **09/13/2018**

Time Report Requested: **21:04:02**

NTP Study Number:

365543

Study Result:

Negative

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Test Compound: 3-Hydroxypropanenitrile

CAS Number: 109-78-4

Date Report Requested: 09/13/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	115 ± 10.8	184 ± 5.5	150 ± 12.6	127 ± 2.6	107 ± 3.2
100.0	102 ± 9.0	126 ± 1.2	127 ± 14.0	138 ± 3.2	123 ± 15.5
333.0	106 ± 2.2	154 ± 16.6	165 ± 9.2	114 ± 2.2	115 ± 3.3
1000.0	103 ± 4.3	129 ± 6.9	140 ± 15.4	124 ± 14.5	114 ± 7.4
3333.0	103 ± 5.7	155 ± 2.5	131 ± 15.8	131 ± 1.0	110 ± 7.8
10000.0	94 ± 2.0	155 ± 2.7	120 ± 7.1	119 ± 9.1	111 ± 5.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					380 ± 10.0
Positive Control ³	435 ± 27.0	441 ± 4.8			
Positive Control ⁴			1452 ± 43.9		
Positive Control ⁵					
Positive Control ⁶				1105 ± 36.0	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	138 ± 6.9
100.0	135 ± 2.5
333.0	139 ± 6.1
1000.0	124 ± 5.9
3333.0	145 ± 1.0
10000.0	138 ± 6.5
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	541 ± 45.7
Positive Control ⁶	

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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	22 ± 1.2	21 ± 3.2	16 ± 3.8	13 ± 1.0	14 ± 3.8
100.0	22 ± 1.5	22 ± 4.0	15 ± 2.0	15 ± 2.7	14 ± 3.8
333.0	20 ± 1.5	20 ± 2.1	16 ± 2.2	15 ± 0.9	14 ± 3.8
1000.0	24 ± 1.7	20 ± 3.0	12 ± 1.5	17 ± 4.7	11 ± 1.2
3333.0	16 ± 2.3	23 ± 1.7	16 ± 1.8	16 ± 0.9	12 ± 2.0
10000.0	22 ± 2.3	20 ± 2.1	12 ± 2.1	15 ± 0.9	18 ± 1.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					63 ± 2.0
Positive Control ³		288 ± 4.7			
Positive Control ⁵					
Positive Control ⁷	805 ± 11.2				
Positive Control ⁶			295 ± 12.1	280 ± 20.7	

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G06: Ames Summary Data

Test Compound: 3-Hydroxypropanenitrile

CAS Number: 109-78-4

Date Report Requested: 09/13/2018

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	14 ± 1.2
100.0	16 ± 1.0
333.0	14 ± 2.2
1000.0	15 ± 2.0
3333.0	13 ± 3.7
10000.0	14 ± 1.5
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	161 ± 6.6
Positive Control ⁷	
Positive Control ⁶	

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G06: Ames Summary Data

Test Compound: 3-Hydroxypropanenitrile

CAS Number: 109-78-4

Date Report Requested: 09/13/2018

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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	100 ± 7.2	160 ± 5.2	124 ± 4.8	160 ± 3.4	126 ± 12.1
100.0	108 ± 0.9	140 ± 12.7	159 ± 3.6	171 ± 9.7	115 ± 7.6
333.0	99 ± 3.0	160 ± 3.5	155 ± 15.0	156 ± 1.5	131 ± 10.0
1000.0	108 ± 8.7	173 ± 5.5	150 ± 13.4	149 ± 6.7	116 ± 0.9
3333.0	110 ± 1.2	157 ± 3.7	145 ± 13.9	159 ± 4.0	114 ± 6.0
10000.0	106 ± 8.5	147 ± 23.5	163 ± 3.5	143 ± 9.8	115 ± 4.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁸	996 ± 42.9	883 ± 28.6			
Positive Control ⁴					805 ± 17.8
Positive Control ⁶			3210 ± 39.6		
Positive Control ⁹				1244 ± 47.8	

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	172 ± 9.8
100.0	151 ± 3.2
333.0	151 ± 5.2
1000.0	158 ± 7.0
3333.0	176 ± 4.2
10000.0	152 ± 9.7
Trial Summary	Negative
Positive Control ⁸	
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁹	1366 ± 31.6

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Test Compound: 3-Hydroxypropanenitrile

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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	18 ± 0.9	15 ± 1.2	34 ± 0.7	32 ± 1.2	29 ± 1.9
100.0	21 ± 4.6	16 ± 2.9	33 ± 2.9	33 ± 4.0	30 ± 4.8
333.0	20 ± 0.9	19 ± 1.5	30 ± 1.3	32 ± 1.3	25 ± 2.7
1000.0	18 ± 1.9	15 ± 3.0	31 ± 2.6	30 ± 4.6	28 ± 2.3
3333.0	19 ± 1.8	19 ± 0.6	30 ± 3.2	33 ± 5.2	32 ± 3.2
10000.0	15 ± 3.7	15 ± 2.4	32 ± 1.2	32 ± 1.7	29 ± 2.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			391 ± 11.9		269 ± 9.3
Positive Control ¹⁰	356 ± 8.8	302 ± 17.5			
Positive Control ⁵				341 ± 18.2	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	31 ± 1.5
100.0	32 ± 0.9
333.0	34 ± 4.4
1000.0	36 ± 1.5
3333.0	28 ± 3.2
10000.0	26 ± 1.7
Trial Summary	Negative
Positive Control ²	408 ± 14.2
Positive Control ¹⁰	
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: Water

2: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 1.0 ug/Plate Sodium Azide

8: 0.05 ug/Plate Solvent

9: 2.5 ug/Plate 2-Aminoanthracene

10: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****