

Experiment Number: 601023

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 3-Hydroxypropanenitrile

CAS Number: 109-78-4

Date Report Requested: 09/15/2018

Time Report Requested: 00:22:44

NTP Study Number:

601023

Study Result:

Negative

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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	107 ± 15.5	111 ± 2.6	113 ± 2.5	137 ± 6.8	146 ± 18.0
100.0	102 ± 6.1	109 ± 8.6	124 ± 9.9	120 ± 6.8	134 ± 13.7
333.0	102 ± 1.7	105 ± 3.6	123 ± 5.6	114 ± 10.8	137 ± 6.2
1000.0	120 ± 9.5	118 ± 3.5	123 ± 12.3	132 ± 9.0	130 ± 5.0
3333.0	95 ± 4.1	123 ± 5.5	130 ± 4.3	133 ± 7.8	105 ± 10.7
10000.0	104 ± 6.4	105 ± 11.3	132 ± 4.2	138 ± 7.0	121 ± 7.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	291 ± 8.8	312 ± 14.7			
Positive Control ³			819 ± 28.0	367 ± 7.7	1863 ± 16.2

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	119 ± 6.0
100.0	132 ± 5.7
333.0	120 ± 5.2
1000.0	143 ± 0.0
3333.0	137 ± 6.0
10000.0	127 ± 6.1
Trial Summary	Negative
Positive Control ²	
Positive Control ³	205 ± 10.7

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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	26 ± 1.5	23 ± 0.6	12 ± 2.3	6 ± 0.6	8 ± 1.5
100.0	17 ± 3.2	25 ± 2.7	12 ± 1.5	12 ± 0.3	7 ± 0.3
333.0	22 ± 1.8	23 ± 2.9	8 ± 2.7	11 ± 1.5	11 ± 2.0
1000.0	22 ± 2.0	28 ± 2.9	7 ± 1.2	14 ± 1.2	9 ± 3.2
3333.0	20 ± 4.0	25 ± 4.8	8 ± 0.6	12 ± 2.4	8 ± 2.8
10000.0	23 ± 4.2	34 ± 0.6	9 ± 1.7	16 ± 0.3	12 ± 2.0
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²	246 ± 8.8	297 ± 3.0			
Positive Control ⁴			221 ± 17.0	428 ± 31.1	415 ± 9.5

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	16 ± 0.9
100.0	9 ± 2.3
333.0	10 ± 3.5
1000.0	14 ± 4.0
3333.0	9 ± 2.2
10000.0	14 ± 5.2
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	77 ± 8.4

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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	132 ± 5.8	189 ± 6.9	216 ± 5.5	188 ± 4.7	168 ± 9.2
100.0	145 ± 3.8	174 ± 15.5	208 ± 41.3	190 ± 26.1	177 ± 3.8
333.0	137 ± 10.3	180 ± 3.5	252 ± 19.9	188 ± 24.5	201 ± 3.5
1000.0	135 ± 5.7	181 ± 4.4	261 ± 7.0	191 ± 28.4	195 ± 12.8
3333.0	125 ± 6.0	192 ± 11.9	240 ± 8.0	194 ± 12.0	189 ± 9.0
10000.0	140 ± 12.1	175 ± 6.6	237 ± 11.2	154 ± 15.5	149 ± 5.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			1360 ± 232.5	540 ± 12.7	1587 ± 146.1
Positive Control ⁵	954 ± 47.1	1202 ± 131.1			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	151 ± 4.4
100.0	155 ± 8.5
333.0	160 ± 14.7
1000.0	153 ± 26.8
3333.0	155 ± 6.7
10000.0	154 ± 9.0
Trial Summary	Negative
Positive Control ⁴	1123 ± 30.4
Positive Control ⁵	

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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	19 ± 0.3	17 ± 0.6	27 ± 0.3	35 ± 5.0	27 ± 2.8
100.0	18 ± 2.8	17 ± 1.3	23 ± 2.0	37 ± 3.4	26 ± 3.9
333.0	14 ± 0.6	15 ± 0.9	22 ± 2.2	38 ± 5.2	19 ± 0.9
1000.0	19 ± 3.8	20 ± 2.5	22 ± 1.7	27 ± 3.8	22 ± 5.8
3333.0	18 ± 4.7	15 ± 1.2	23 ± 3.1	25 ± 1.7	20 ± 0.3
10000.0	16 ± 2.5	10 ± 3.8	26 ± 4.1	20 ± 2.2	26 ± 0.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			328 ± 26.0	137 ± 14.3	1105 ± 7.8
Positive Control ⁶	396 ± 24.4	560 ± 43.7			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	30 ± 3.2
100.0	26 ± 1.9
333.0	26 ± 4.1
1000.0	22 ± 2.3
3333.0	26 ± 4.6
10000.0	20 ± 1.9
Trial Summary	Negative
Positive Control ³	72 ± 5.2
Positive Control ⁶	

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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 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

**** END OF REPORT ****