

Experiment Number: 396049

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Hydroxypropanenitrile

CAS Number: 78-97-7

Date Report Requested: 09/14/2018

Time Report Requested: 16:07:30

NTP Study Number:

396049

Study Result:

Weakly Positive

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Test Compound: 2-Hydroxypropanenitrile

CAS Number: 78-97-7

Date Report Requested: 09/14/2018

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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	114 ± 7.8	164 ± 4.3	118 ± 6.1	181 ± 3.7	114 ± 11.9
1.0		156 ± 9.8			
3.3	98 ± 6.0	146 ± 3.0		166 ± 1.2	
10.0	107 ± 8.1	163 ± 5.6	112 ± 5.2	165 ± 3.8	108 ± 2.4
33.0	80 ± 3.8	114 ± 3.4	114 ± 7.1	173 ± 2.8	110 ± 6.5
67.0		111 ± 5.7		159 ± 8.0	
100.0	14 ± 2.2		98 ± 3.4	168 ± 5.8	77 ± 7.3
200.0	0 ± 0.0				
333.0			17 ± 1.2		0 ± 0.0
500.0			0 ± 0.0		0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1095 ± 11.9
Positive Control ³			1891 ± 22.0		
Positive Control ⁴				1183 ± 20.2	
Positive Control ⁵	1124 ± 25.2	1172 ± 59.7			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	159 ± 2.5
1.0	
3.3	162 ± 8.5
10.0	150 ± 1.9
33.0	157 ± 12.5
67.0	162 ± 5.9
100.0	158 ± 4.6
200.0	
333.0	
500.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	1477 ± 42.1
Positive Control ⁵	

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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	23 ± 3.0	36 ± 6.6	11 ± 3.2	12 ± 0.3	10 ± 3.2
1.0		34 ± 1.5			
3.3	23 ± 1.7	35 ± 2.3		18 ± 1.2	
10.0	23 ± 4.3	42 ± 5.7	13 ± 3.3	17 ± 1.5	12 ± 3.2
33.0	22 ± 1.3	23 ± 3.5	14 ± 2.0	18 ± 1.5	16 ± 2.2
67.0		19 ± 0.9		20 ± 1.5	
100.0	4 ± 0.3		11 ± 1.5	21 ± 2.9	12 ± 1.2
200.0	0 ± 0.3				
333.0			1 ± 0.7		1 ± 0.7
500.0			0 ± 0.0		0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					97 ± 12.4
Positive Control ³			127 ± 10.7		
Positive Control ⁴				207 ± 15.3	
Positive Control ⁵	878 ± 21.9	879 ± 35.2			

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Test Compound: 2-Hydroxypropanenitrile
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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	16 ± 0.7
1.0	
3.3	15 ± 2.6
10.0	14 ± 5.5
33.0	17 ± 1.2
67.0	19 ± 1.9
100.0	18 ± 0.6
200.0	
333.0	
500.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	323 ± 4.1
Positive Control ⁵	

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G06: Ames Summary Data

Test Compound: 2-Hydroxypropanenitrile
CAS Number: 78-97-7

Date Report Requested: 09/14/2018

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Strain: TA1537		
Dose (ug/Plate)	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	12 ± 2.0	13 ± 1.2
0.3	15 ± 2.0	16 ± 3.2
1.0	13 ± 0.6	13 ± 1.8
3.3	13 ± 3.2	11 ± 2.7
10.0	14 ± 2.5	13 ± 2.4
33.0	13 ± 2.7	12 ± 0.7
66.0	12 ± 1.5	13 ± 1.3
Trial Summary	Negative	Negative
Positive Control ⁴	34 ± 3.0	50 ± 1.2

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Test Compound: 2-Hydroxypropanenitrile

CAS Number: 78-97-7

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	85 ± 5.0	119 ± 12.4	139 ± 0.6	186 ± 4.4	244 ± 15.6
0.3					237 ± 2.1
1.0		119 ± 16.9			194 ± 5.3
3.3	84 ± 1.9	113 ± 9.2		237 ± 16.4	247 ± 4.1
10.0	95 ± 9.6	115 ± 16.2	159 ± 4.4	226 ± 6.7	238 ± 14.6
33.0	30 ± 6.1	102 ± 10.7	209 ± 4.6	288 ± 8.0	277 ± 6.4
66.0					349 ± 8.6
67.0		90 ± 2.0		321 ± 20.3	
100.0	1 ± 1.0		59 ± 21.1	291 ± 11.0	
200.0	0 ± 0.0				
333.0			0 ± 0.0		
500.0			0 ± 0.0		
Trial Summary	Negative	Negative	Equivocal	Weakly Positive	Equivocal
Positive Control ²					
Positive Control ³			971 ± 25.7		
Positive Control ⁴				914 ± 86.0	453 ± 17.6
Positive Control ⁶	1567 ± 334.2	1024 ± 142.6			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	141 ± 4.8	172 ± 2.3	269 ± 18.4
0.3			250 ± 9.3
1.0			292 ± 8.2
3.3		211 ± 7.0	274 ± 4.9
10.0	143 ± 3.6	236 ± 15.3	249 ± 13.7
33.0	137 ± 7.0	236 ± 10.5	329 ± 4.2
66.0			325 ± 14.4
67.0		261 ± 21.8	
100.0	61 ± 3.2	261 ± 3.3	
200.0			
333.0	0 ± 0.0		
500.0	0 ± 0.0		
Trial Summary	Negative	Weakly Positive	Equivocal
Positive Control ²	657 ± 11.8		
Positive Control ³			
Positive Control ⁴		862 ± 33.3	783 ± 33.4
Positive Control ⁶			

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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	17 ± 1.9	23 ± 2.0	30 ± 2.5	35 ± 5.5	27 ± 1.2
1.0		18 ± 4.0			
3.3	14 ± 1.5	22 ± 0.9		30 ± 4.4	
10.0	16 ± 2.3	25 ± 3.2	32 ± 1.7	35 ± 2.6	27 ± 0.3
33.0	15 ± 0.3	14 ± 2.7	26 ± 3.5	32 ± 2.2	26 ± 3.8
67.0		17 ± 2.1		32 ± 0.9	
100.0	0 ± 0.0		15 ± 0.3	27 ± 3.8	19 ± 1.0
200.0	0 ± 0.3				
333.0			0 ± 0.0		0 ± 0.0
500.0			0 ± 0.0		0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					879 ± 29.4
Positive Control ³			1518 ± 5.5		
Positive Control ⁴				772 ± 27.3	
Positive Control ⁷	1840 ± 35.2	1858 ± 27.8			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	33 ± 4.4
1.0	
3.3	35 ± 3.2
10.0	39 ± 1.7
33.0	39 ± 4.0
67.0	32 ± 1.2
100.0	35 ± 5.6
200.0	
333.0	
500.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	1098 ± 25.2
Positive Control ⁷	

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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: 0.75 ug/Plate 2-Aminoanthracene
- 3: 1.5 ug/Plate 2-Aminoanthracene
- 4: 2.0 ug/Plate 2-Aminoanthracene
- 5: 2.5 ug/Plate Sodium Azide
- 6: 4.0 ug/Plate 9-Aminoacridine
- 7: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****