

Experiment Number: 454827

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

G06: Ames Summary Data

Test Compound: **alpha-Hydroxybenzeneacetonitrile**

CAS Number: 532-28-5

Date Report Requested: 09/11/2018

Time Report Requested: 04:08:16

NTP Study Number:

454827

Study Result:

Negative

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Test Compound: alpha-Hydroxybenzeneacetonitrile
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Date Report Requested: 09/11/2018

Time Report Requested: 04:08:16

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	119 ± 4.4	120 ± 8.8	134 ± 13.3	124 ± 13.0	157 ± 2.3
0.03	126 ± 5.2				
0.1	125 ± 8.4	114 ± 11.0	159 ± 2.5		147 ± 11.1
0.3	130 ± 4.5	112 ± 10.8	155 ± 5.0	133 ± 5.9	151 ± 0.7
1.0	134 ± 5.0	92 ± 9.8	140 ± 7.5	114 ± 4.0	171 ± 9.3
3.0	127 ± 8.8	79 ± 8.1	150 ± 9.1	115 ± 6.9	155 ± 9.1
6.0		51 ± 9.0 ^s			
10.0			169 ± 3.3	101 ± 14.0	163 ± 5.3
16.0				30 ± 15.0	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1187 ± 78.0	429 ± 9.0	1611 ± 61.2
Positive Control ³	405 ± 5.5	413 ± 18.5			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	135 ± 3.5
0.03	
0.1	
0.3	151 ± 11.3
1.0	153 ± 9.2
3.0	160 ± 3.1
6.0	
10.0	135 ± 4.2
16.0	110 ± 7.0
Trial Summary	Negative
Positive Control ²	548 ± 8.4
Positive Control ³	

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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	24 ± 5.4	17 ± 0.7	8 ± 1.5	12 ± 2.0	8 ± 2.6
0.03	30 ± 5.4				
0.1	31 ± 0.9	17 ± 1.5	13 ± 1.5		14 ± 1.9
0.3	34 ± 1.5	20 ± 1.3	13 ± 3.0	12 ± 0.9	10 ± 2.4
1.0	36 ± 2.9	18 ± 1.5	10 ± 1.8	14 ± 0.9	10 ± 0.3
3.0	35 ± 5.4	9 ± 1.8	10 ± 1.5	17 ± 1.2	10 ± 3.3
6.0		1 ± 0.3 ^s			
10.0			13 ± 3.5	13 ± 1.2	10 ± 1.2
16.0				7 ± 0.9 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	629 ± 4.5	424 ± 37.3			
Positive Control ⁴			369 ± 13.8	176 ± 3.2	610 ± 17.6

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	14 ± 1.0
0.03	
0.1	
0.3	11 ± 3.0
1.0	12 ± 2.9
3.0	11 ± 2.5
6.0	
10.0	12 ± 3.3
16.0	9 ± 2.5
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	615 ± 29.9

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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	156 ± 2.6	135 ± 5.1	183 ± 12.1	135 ± 13.5	176 ± 0.6
0.03	161 ± 1.2				
0.1	162 ± 11.6	151 ± 3.8	215 ± 4.0		196 ± 3.7
0.3	158 ± 12.0	136 ± 2.0	206 ± 17.3	186 ± 22.5	192 ± 7.5
1.0	158 ± 11.3	154 ± 8.7	214 ± 3.7	195 ± 5.3	186 ± 5.0
3.0	163 ± 11.2	137 ± 6.6	232 ± 12.0	189 ± 6.2	213 ± 7.9
6.0		31 ± 14.4 ^s			
10.0			224 ± 23.3	129 ± 10.9	189 ± 2.6
16.0				121 ± 8.7	
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ⁴			1491 ± 39.5	755 ± 22.8	1690 ± 33.3
Positive Control ⁵	1049 ± 70.4	1294 ± 105.1			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	160 ± 7.8
0.03	
0.1	
0.3	170 ± 5.5
1.0	178 ± 7.2
3.0	172 ± 13.0
6.0	
10.0	186 ± 18.9
16.0	137 ± 6.7
Trial Summary	Negative
Positive Control ⁴	1129 ± 75.0
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	17 ± 0.9	19 ± 4.7	37 ± 2.6	22 ± 3.1	36 ± 3.3
0.03	18 ± 3.0				
0.1	20 ± 1.3	15 ± 6.0	32 ± 2.1		31 ± 3.3
0.3	19 ± 2.9	19 ± 1.7	34 ± 1.5	19 ± 2.6	30 ± 3.5
1.0	16 ± 1.3	15 ± 1.8	31 ± 2.6	23 ± 1.0	27 ± 4.2
3.0	16 ± 0.9	8 ± 2.6	33 ± 3.7	25 ± 0.3	38 ± 3.5
6.0		1 ± 0.3 ^s			
10.0			37 ± 3.5	9 ± 4.7	40 ± 0.6
16.0				4 ± 0.3 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			768 ± 25.8	950 ± 59.1	1126 ± 41.6
Positive Control ⁶	497 ± 16.2	950 ± 59.1			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	25 ± 5.2
0.03	
0.1	
0.3	27 ± 1.5
1.0	25 ± 5.9
3.0	28 ± 5.8
6.0	
10.0	23 ± 2.2
16.0	16 ± 6.0
Trial Summary	Negative
Positive Control ²	251 ± 19.1
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: Dimethyl Sulfoxide

2: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****