

Experiment Number: 393868

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Acetic acid

CAS Number: 64-19-7

Date Report Requested: 09/14/2018

Time Report Requested: 15:48:10

NTP Study Number:

393868

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	120 ± 15.9	126 ± 2.6	145 ± 8.4	157 ± 7.1	163 ± 4.8
100.0	156 ± 8.2	139 ± 6.9	138 ± 8.1	164 ± 9.0	145 ± 10.8
333.0	150 ± 6.9	138 ± 6.1	136 ± 6.8	148 ± 5.5	145 ± 4.4
1000.0	142 ± 5.8	145 ± 7.3	164 ± 11.9	149 ± 11.4	145 ± 9.2
3333.0	136 ± 12.0	143 ± 4.3	117 ± 24.6	126 ± 5.9	105 ± 8.3
6666.0		123 ± 9.3	59 ± 2.0 ^s		90 ± 1.5
10000.0	131 ± 7.2			101 ± 13.0 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					657 ± 5.1
Positive Control ³			599 ± 23.1		
Positive Control ⁴	429 ± 7.8	316 ± 3.5			
Positive Control ⁵				244 ± 6.7	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	159 ± 7.4
100.0	149 ± 1.5
333.0	157 ± 4.2
1000.0	171 ± 4.2
3333.0	135 ± 23.2
6666.0	
10000.0	117 ± 19.0 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	462 ± 31.2
Positive Control ⁴	
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	20 ± 4.2	26 ± 0.6	15 ± 1.5	17 ± 0.3	14 ± 2.8
100.0	15 ± 3.5	19 ± 1.2	13 ± 0.7	15 ± 3.1	13 ± 2.1
333.0	14 ± 2.9	20 ± 2.1	14 ± 0.3	16 ± 1.7	12 ± 2.1
1000.0	17 ± 0.6	18 ± 1.0	15 ± 2.2	10 ± 2.1	9 ± 1.2
3333.0	17 ± 3.8	17 ± 1.2	12 ± 2.3	10 ± 1.0	12 ± 0.9
6666.0		14 ± 2.4	9 ± 1.2 ^s		7 ± 0.3 ^s
10000.0	12 ± 3.5			5 ± 0.9 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴	506 ± 24.1	332 ± 10.2			
Positive Control ³					180 ± 18.4
Positive Control ⁵			214 ± 27.7		
Positive Control ⁶				60 ± 2.3	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	13 ± 1.0
100.0	14 ± 1.7
333.0	15 ± 0.3
1000.0	8 ± 1.2
3333.0	10 ± 3.2
6666.0	
10000.0	6 ± 0.6 ^s
Trial Summary	Negative
Positive Control ⁴	
Positive Control ³	
Positive Control ⁵	340 ± 22.8
Positive Control ⁶	

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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	181 ± 9.4	166 ± 6.4	181 ± 4.5	156 ± 7.5	161 ± 6.7
100.0	167 ± 9.2	183 ± 10.7	168 ± 13.2	120 ± 7.9	138 ± 5.3
333.0	150 ± 12.3	151 ± 2.1	141 ± 12.8	131 ± 7.6	107 ± 3.5
1000.0	182 ± 4.2	136 ± 3.6	159 ± 20.5	117 ± 2.6	106 ± 10.7
3333.0	181 ± 4.6	116 ± 14.2	113 ± 7.1	122 ± 3.7	90 ± 2.4
6666.0		119 ± 10.4	98 ± 6.8 ^s		78 ± 7.5 ^s
10000.0	123 ± 6.7			104 ± 10.6 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					463 ± 15.8
Positive Control ³			449 ± 10.1		
Positive Control ⁵				454 ± 25.6	
Positive Control ⁷	415 ± 11.2	403 ± 11.1			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	187 ± 11.9
100.0	195 ± 5.4
333.0	157 ± 14.6
1000.0	142 ± 5.5
3333.0	135 ± 12.2
6666.0	
10000.0	90 ± 19.6 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	368 ± 24.9
Positive Control ⁵	
Positive Control ⁷	

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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	25 ± 1.0	18 ± 0.3	28 ± 0.6	35 ± 1.8	25 ± 0.3
100.0	21 ± 2.5	15 ± 1.8	30 ± 0.7	32 ± 3.8	27 ± 1.9
333.0	26 ± 4.7	13 ± 0.6	28 ± 2.0	36 ± 3.5	28 ± 0.9
1000.0	21 ± 1.7	17 ± 0.3	29 ± 4.6	33 ± 4.6	24 ± 0.0
3333.0	20 ± 2.7	17 ± 3.7	24 ± 1.8	36 ± 9.6	19 ± 0.9
6666.0		17 ± 2.3	23 ± 2.0 ^s		22 ± 1.8
10000.0	1 ± 1.0 ^s			24 ± 2.3	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					202 ± 16.0
Positive Control ³			202 ± 10.9	104 ± 5.9	
Positive Control ⁸	372 ± 12.5	423 ± 27.7			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	42 ± 5.0
100.0	37 ± 3.0
333.0	31 ± 0.7
1000.0	31 ± 3.5
3333.0	29 ± 2.9
6666.0	
10000.0	16 ± 4.2 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	495 ± 21.7
Positive Control ⁸	

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****