

Experiment Number: 831005

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

G06: Ames Summary Data

Test Compound: **Acetonitrile**

CAS Number: **75-05-8**

Date Report Requested: **09/15/2018**

Time Report Requested: **19:19:54**

NTP Study Number:

831005

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	99 ± 3.5	159 ± 7.4	100 ± 4.6	158 ± 4.1	123 ± 10.6
100.0	149 ± 9.2	178 ± 2.7	107 ± 4.0	134 ± 10.6	138 ± 14.9
333.0	120 ± 9.0	171 ± 6.0	105 ± 5.5	140 ± 12.1	143 ± 3.0
1000.0	135 ± 6.6	157 ± 7.9	96 ± 1.5	135 ± 2.6	148 ± 3.8
3333.0	131 ± 8.7	159 ± 8.5	100 ± 2.1	136 ± 2.9	142 ± 16.8
10000.0	132 ± 6.1	174 ± 3.5	100 ± 1.7	126 ± 5.5	131 ± 10.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	239 ± 4.3	471 ± 17.5			
Positive Control ³			838 ± 11.3	1262 ± 54.6	655 ± 67.7

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	155 ± 2.9
100.0	174 ± 9.0
333.0	172 ± 7.5
1000.0	171 ± 9.2
3333.0	166 ± 9.2
10000.0	162 ± 7.0
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1584 ± 55.1

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	22 ± 3.1	32 ± 3.0	6 ± 1.0	16 ± 1.5	7 ± 2.3
100.0	52 ± 5.2	23 ± 4.8	11 ± 2.3	14 ± 1.2	12 ± 3.5
333.0	57 ± 8.5	25 ± 3.5	9 ± 2.7	15 ± 0.9	13 ± 0.3
1000.0	40 ± 8.0	18 ± 1.2	14 ± 1.5	14 ± 4.0	9 ± 3.3
3333.0	42 ± 3.5	24 ± 2.0	13 ± 0.6	13 ± 0.9	12 ± 1.8
10000.0	53 ± 4.0	25 ± 2.6	15 ± 1.0	15 ± 3.5	12 ± 2.7
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²	245 ± 8.6	359 ± 12.5			
Positive Control ⁴			235 ± 16.5	438 ± 30.3	414 ± 22.7

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	15 ± 3.2
100.0	17 ± 2.3
333.0	17 ± 0.3
1000.0	13 ± 4.1
3333.0	15 ± 0.7
10000.0	22 ± 2.2
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	505 ± 13.2

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	9 ± 3.7	13 ± 0.7	5 ± 0.9	16 ± 1.9	7 ± 1.2
100.0	10 ± 2.2	12 ± 1.7	10 ± 1.3	16 ± 2.0	7 ± 0.6
333.0	10 ± 2.5	8 ± 2.6	9 ± 2.3	15 ± 2.0	8 ± 2.3
1000.0	12 ± 2.5	10 ± 2.1	9 ± 2.9	12 ± 1.5	16 ± 2.1
3333.0	Toxic	11 ± 1.7	12 ± 2.1	14 ± 1.3	8 ± 0.6
10000.0	15 ± 2.3	10 ± 1.7	11 ± 3.3	16 ± 2.7	11 ± 2.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			342 ± 11.6	491 ± 60.8	487 ± 13.7
Positive Control ⁵	265 ± 38.2	215 ± 8.4			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	18 ± 1.0
100.0	21 ± 4.5
333.0	14 ± 3.3
1000.0	18 ± 1.8
3333.0	21 ± 6.4
10000.0	11 ± 1.2
Trial Summary	Negative
Positive Control ⁴	559 ± 5.5
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	19 ± 3.1	30 ± 1.5	21 ± 2.3	44 ± 3.7	29 ± 5.8
100.0	34 ± 4.9	30 ± 3.2	21 ± 5.2	34 ± 2.9	19 ± 4.2
333.0	34 ± 2.8	32 ± 2.5	25 ± 3.5	43 ± 5.8	21 ± 7.0
1000.0	31 ± 4.1	28 ± 7.5	20 ± 5.0	38 ± 3.8	16 ± 5.8
3333.0	50 ± 7.8	32 ± 3.8	21 ± 2.7	38 ± 1.0	19 ± 2.9
10000.0	25 ± 3.7	35 ± 5.2	28 ± 0.9	34 ± 1.2	30 ± 4.5
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ³			567 ± 23.3	1031 ± 178.1	1325 ± 36.0
Positive Control ⁶	595 ± 22.1	815 ± 4.9			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	42 ± 1.7
100.0	44 ± 3.2
333.0	47 ± 0.7
1000.0	47 ± 4.4
3333.0	44 ± 3.7
10000.0	44 ± 2.0
Trial Summary	Negative
Positive Control ³	1393 ± 120.7
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 ****