

Experiment Number: 571879

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Acetonitrile

CAS Number: 75-05-8

Date Report Requested: 09/14/2018

Time Report Requested: 04:55:34

NTP Study Number:

571879

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	80 ± 6.1	81 ± 6.2	88 ± 5.2	90 ± 2.7	80 ± 0.6
100.0	75 ± 3.0	83 ± 6.4	82 ± 7.9	76 ± 10.0	87 ± 8.8
333.0	79 ± 6.0	73 ± 5.2	80 ± 4.1	84 ± 4.0	94 ± 3.7
1000.0	75 ± 3.3	84 ± 4.5	85 ± 2.4	84 ± 2.9	110 ± 1.5
3333.0	92 ± 12.4	74 ± 6.2	76 ± 10.0	87 ± 7.5	97 ± 4.0
10000.0	82 ± 6.7	74 ± 5.6	92 ± 6.8	84 ± 4.4	91 ± 4.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³					404 ± 21.5
Positive Control ⁴	477 ± 6.3	204 ± 3.0			
Positive Control ⁵			282 ± 44.3		
Positive Control ⁶					
Positive Control ⁷				700 ± 23.7	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	91 ± 1.3
100.0	87 ± 6.0
333.0	80 ± 2.7
1000.0	88 ± 4.6
3333.0	99 ± 4.8
10000.0	79 ± 4.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	
Positive Control ⁶	285 ± 15.0
Positive Control ⁷	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	7 ± 0.9	22 ± 0.6	16 ± 0.6	12 ± 1.9	7 ± 2.3
100.0	10 ± 1.5	20 ± 3.4	14 ± 0.0	8 ± 1.3	8 ± 0.3
333.0	11 ± 1.5	16 ± 2.6	14 ± 3.0	9 ± 2.3	9 ± 3.6
1000.0	13 ± 1.5	15 ± 2.0	14 ± 3.3	9 ± 0.9	12 ± 1.8
3333.0	14 ± 0.7	19 ± 1.2	15 ± 1.0	7 ± 0.6	10 ± 1.8
10000.0	11 ± 3.0	17 ± 1.0	13 ± 0.9	10 ± 1.8	9 ± 2.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	52 ± 7.1				
Positive Control ⁴		339 ± 10.6	89 ± 2.9		
Positive Control ⁶					
Positive Control ⁸					109 ± 2.0
Positive Control ⁷				119 ± 10.5	

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Date Report Requested: 09/14/2018
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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 1.0
100.0	8 ± 1.2
333.0	8 ± 0.7
1000.0	12 ± 0.9
3333.0	9 ± 1.3
10000.0	10 ± 1.0
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁶	69 ± 6.2
Positive Control ⁸	
Positive Control ⁷	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	93 ± 5.0	56 ± 3.4	94 ± 3.9	140 ± 3.7	195 ± 6.2
100.0	65 ± 2.9	45 ± 2.6	108 ± 13.4	130 ± 3.3	172 ± 14.4
333.0	77 ± 4.2	53 ± 1.2	96 ± 3.8	141 ± 6.4	166 ± 16.9
1000.0	86 ± 3.8	64 ± 6.1	91 ± 14.2	120 ± 1.0	161 ± 12.5
3333.0	98 ± 2.2	57 ± 5.2	89 ± 2.3	126 ± 12.1	168 ± 14.2
10000.0	87 ± 3.2	60 ± 3.6	80 ± 4.8	121 ± 10.0	157 ± 10.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					
Positive Control ⁶					
Positive Control ⁷				723 ± 15.7	403 ± 10.1
Positive Control ⁹	144 ± 12.2	434 ± 25.7	420 ± 26.1		

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	108 ± 4.2	160 ± 4.3
100.0	103 ± 10.5	167 ± 9.3
333.0	102 ± 4.3	148 ± 3.0
1000.0	92 ± 6.6	165 ± 6.8
3333.0	90 ± 3.5	160 ± 3.8
10000.0	93 ± 8.0	182 ± 14.7
Trial Summary	Negative	Negative
Positive Control ³	285 ± 21.2	
Positive Control ⁶		291 ± 4.9
Positive Control ⁷		
Positive Control ⁹		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	16 ± 0.6	25 ± 2.1	21 ± 1.9	31 ± 2.4	32 ± 3.0
100.0	18 ± 1.0	21 ± 2.5	21 ± 3.7	23 ± 1.2	40 ± 3.7
333.0	16 ± 0.9	22 ± 3.0	23 ± 1.2	25 ± 0.7	29 ± 1.8
1000.0	16 ± 0.3	22 ± 4.7	20 ± 0.9	21 ± 4.0	31 ± 3.5
3333.0	15 ± 0.9	22 ± 5.1	15 ± 2.0	24 ± 2.3	34 ± 2.3
10000.0	12 ± 2.7	18 ± 1.3	22 ± 5.7	22 ± 2.7	37 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁰					
Positive Control ³				160 ± 12.9	
Positive Control ¹¹	224 ± 15.5	154 ± 19.9	113 ± 5.8		
Positive Control ⁶					211 ± 20.8

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	31 ± 1.7	35 ± 1.0
100.0	24 ± 2.1	34 ± 1.2
333.0	27 ± 2.4	31 ± 5.3
1000.0	36 ± 4.1	30 ± 3.0
3333.0	27 ± 4.1	33 ± 1.7
10000.0	30 ± 2.3	26 ± 3.6
Trial Summary	Negative	Negative
Positive Control ¹⁰	187 ± 10.1	
Positive Control ³		117 ± 9.5
Positive Control ¹¹		
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: 0.25 ug/Plate Sodium Azide
- 3: 0.4 ug/Plate 2-Aminoanthracene
- 4: 0.5 ug/Plate Sodium Azide
- 5: 0.75 ug/Plate 2-Aminoanthracene
- 6: 1.0 ug/Plate 2-Aminoanthracene
- 7: 2.0 ug/Plate 2-Aminoanthracene
- 8: 1.5 ug/Plate 2-Aminoanthracene
- 9: 3.5 ug/Plate 9-Aminoacridine
- 10: 0.2 ug/Plate 2-Aminoanthracene
- 11: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****