

Experiment Number: 198018

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Acrylonitrile

CAS Number: 107-13-1

Date Report Requested: 09/14/2018

Time Report Requested: 08:21:05

NTP Study Number:

198018

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	99 ± 5.6	90 ± 10.2	92 ± 6.9	93 ± 4.6	93 ± 3.1
100.0	96 ± 4.9	97 ± 6.0	88 ± 3.4	100 ± 4.3	100 ± 5.7
333.0	89 ± 0.9	95 ± 7.1	99 ± 6.6	104 ± 2.6	109 ± 4.4
1000.0	71 ± 4.7	94 ± 2.4	90 ± 8.4	106 ± 6.9	125 ± 2.0
3333.0	60 ± 6.9	96 ± 6.0	95 ± 0.9	109 ± 9.2	140 ± 1.5
6666.0		108 ± 3.8		104 ± 7.0	124 ± 5.1
6667.0			71 ± 5.9 ^s		
10000.0	61 ± 4.4 ^s				
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²					
Positive Control ³		2871 ± 62.8	1292 ± 62.5	1523 ± 24.1	
Positive Control ⁴					509 ± 5.6
Positive Control ⁵	1188 ± 67.7				

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Strain: TA100

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	94 ± 1.5	92 ± 6.7	95 ± 2.1	115 ± 9.3
100.0	89 ± 7.4	106 ± 1.5	98 ± 7.1	126 ± 7.2
333.0	75 ± 8.7	131 ± 8.1	100 ± 6.3	161 ± 4.2
1000.0	102 ± 7.8	143 ± 1.8	122 ± 12.5	260 ± 9.1
3333.0	100 ± 5.5	164 ± 1.2	144 ± 7.3	373 ± 8.1
6666.0	101 ± 4.3		165 ± 7.6	435 ± 8.2
6667.0		178 ± 15.9 ^s		
10000.0				
Trial Summary	Negative	Weakly Positive	Weakly Positive	Positive
Positive Control ²	3138 ± 158.3	917 ± 34.0	1197 ± 90.7	
Positive Control ³				
Positive Control ⁴				1115 ± 18.3
Positive Control ⁵				

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	25 ± 1.0	12 ± 3.4	11 ± 3.1	12 ± 3.5	19 ± 1.2
100.0	25 ± 1.8	15 ± 0.9	14 ± 1.5	14 ± 3.1	19 ± 1.2
333.0	23 ± 0.6	16 ± 3.2	21 ± 1.5	23 ± 4.4	32 ± 1.9
1000.0	18 ± 0.3	25 ± 2.1	27 ± 7.0	23 ± 1.2	51 ± 3.8
3333.0	10 ± 2.5	27 ± 2.7	24 ± 2.6	47 ± 6.4	98 ± 8.6
6666.0		23 ± 1.5		46 ± 3.2 ^s	107 ± 3.5
6667.0			21 ± 3.3 ^s		
10000.0	6 ± 0.6 ^s				
Trial Summary	Negative	Weakly Positive	Weakly Positive	Positive	Positive
Positive Control ²					
Positive Control ³		173 ± 10.7	121 ± 2.5	134 ± 2.7	
Positive Control ⁴					137 ± 7.2
Positive Control ⁵	829 ± 35.5				

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Strain: TA1535

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	14 ± 1.2	16 ± 3.5	11 ± 2.3	23 ± 4.2
100.0	13 ± 1.2	23 ± 3.7	19 ± 2.6	33 ± 2.1
333.0	18 ± 3.2	33 ± 2.5	30 ± 2.1	67 ± 4.2
1000.0	24 ± 2.1	79 ± 5.2	53 ± 3.2	161 ± 7.2
3333.0	36 ± 3.5	94 ± 3.8	95 ± 5.2	364 ± 19.7
6666.0	43 ± 7.5 ^s		105 ± 3.9	432 ± 13.0
6667.0		85 ± 9.2 ^s		
10000.0				
Trial Summary	Positive	Positive	Positive	Positive
Positive Control ²	161 ± 5.9	123 ± 11.6	118 ± 9.0	
Positive Control ³				
Positive Control ⁴				229 ± 14.4
Positive Control ⁵				

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	65 ± 3.3	124 ± 8.0	102 ± 1.8
100.0	82 ± 3.5	120 ± 8.3	101 ± 4.0
333.0	81 ± 6.5	110 ± 8.4	104 ± 1.7
1000.0	59 ± 8.5	111 ± 14.6	112 ± 8.9
3333.0	51 ± 9.0	95 ± 6.0	96 ± 11.3
6667.0		100 ± 10.9 ^s	83 ± 3.5 ^s
10000.0	25 ± 1.5 ^s		
Trial Summary	Negative	Negative	Negative
Positive Control ²			476 ± 36.2
Positive Control ³		578 ± 15.9	
Positive Control ⁶	583 ± 103.1		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	15 ± 0.3	30 ± 2.5	33 ± 2.7
100.0	16 ± 3.5	26 ± 2.7	27 ± 1.2
333.0	18 ± 0.9	28 ± 3.9	24 ± 1.2
1000.0	17 ± 3.8	20 ± 4.1	24 ± 1.5
3333.0	15 ± 0.7	27 ± 5.2	27 ± 7.4
6667.0		24 ± 0.6 ^s	11 ± 2.6 ^s
10000.0	6 ± 1.5 ^s		
Trial Summary	Negative	Negative	Negative
Positive Control ²			846 ± 19.8
Positive Control ³		1128 ± 54.0	
Positive Control ⁷	1374 ± 46.6		

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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: 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

s: Slight Toxicity

** END OF REPORT **