

Experiment Number: 350274

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

G06: Ames Summary Data

Test Compound: **Succinonitrile**

CAS Number: **110-61-2**

Date Report Requested: **09/13/2018**

Time Report Requested: **15:27:40**

NTP Study Number:

350274

Study Result:

Negative

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Test Compound: Succinonitrile

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Date Report Requested: 09/13/2018

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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	125 ± 14.1	106 ± 2.3	109 ± 3.2	130 ± 10.3	110 ± 11.7
100.0	99 ± 11.7	104 ± 2.7	113 ± 5.2	127 ± 7.8	121 ± 4.3
333.0	107 ± 10.2	92 ± 2.9	120 ± 5.2	139 ± 5.0	113 ± 11.3
1000.0	91 ± 9.7	98 ± 3.5	123 ± 7.4	123 ± 15.4	115 ± 4.8
3333.0	103 ± 5.8	104 ± 4.4	110 ± 3.3	132 ± 8.2	103 ± 6.4
10000.0	100 ± 1.2	107 ± 2.0	123 ± 3.1	128 ± 13.1	105 ± 8.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	757 ± 53.9	417 ± 11.2			
Positive Control ³			1034 ± 34.2	380 ± 27.6	2419 ± 26.3

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	109 ± 5.1
100.0	110 ± 3.3
333.0	127 ± 6.9
1000.0	103 ± 2.4
3333.0	103 ± 7.1
10000.0	122 ± 3.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	585 ± 12.0

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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	27 ± 2.8	27 ± 1.2	12 ± 1.5	15 ± 1.5	10 ± 1.2
100.0	23 ± 1.7	28 ± 3.6	7 ± 0.7	16 ± 1.7	10 ± 1.2
333.0	18 ± 4.9	28 ± 2.5	10 ± 2.0	9 ± 1.7	5 ± 0.3
1000.0	20 ± 3.8	22 ± 1.2	11 ± 1.7	14 ± 2.5	7 ± 0.9
3333.0	19 ± 3.2	27 ± 0.7	9 ± 2.0	13 ± 2.5	7 ± 1.2
10000.0	22 ± 4.5	27 ± 4.2	13 ± 0.6	10 ± 2.6	7 ± 0.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	596 ± 19.1	512 ± 39.1			
Positive Control ⁴			310 ± 9.3	118 ± 2.0	539 ± 31.1

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	8 ± 3.2
100.0	9 ± 1.9
333.0	8 ± 1.0
1000.0	11 ± 3.4
3333.0	9 ± 2.3
10000.0	12 ± 3.0
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	408 ± 4.6

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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	142 ± 2.3	158 ± 10.7	186 ± 6.1	196 ± 3.3	150 ± 13.3
100.0	183 ± 18.7	163 ± 17.5	177 ± 5.5	187 ± 18.1	164 ± 13.3
333.0	172 ± 21.9	187 ± 8.3	198 ± 0.3	194 ± 16.3	175 ± 13.8
1000.0	186 ± 13.1	154 ± 4.4	174 ± 2.3	200 ± 13.8	173 ± 11.8
3333.0	174 ± 8.3	183 ± 11.5	194 ± 8.8	219 ± 2.0	183 ± 2.8
10000.0	188 ± 12.8	167 ± 13.1	183 ± 5.4	209 ± 7.0	180 ± 4.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			1479 ± 49.5	475 ± 19.9	2255 ± 36.6
Positive Control ⁵	1844 ± 77.2	1609 ± 55.4			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	175 ± 8.0
100.0	182 ± 12.7
333.0	162 ± 19.5
1000.0	157 ± 8.5
3333.0	169 ± 11.6
10000.0	166 ± 12.0
Trial Summary	Negative
Positive Control ⁴	1097 ± 20.9
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 ± 3.5	25 ± 3.6	22 ± 1.2	29 ± 6.2	25 ± 1.7
100.0	14 ± 4.2	16 ± 2.1	29 ± 4.7	26 ± 3.1	27 ± 5.2
333.0	14 ± 0.9	16 ± 0.6	26 ± 1.2	27 ± 4.7	28 ± 2.4
1000.0	17 ± 1.8	18 ± 1.5	24 ± 3.8	24 ± 4.0	27 ± 0.9
3333.0	18 ± 0.3	15 ± 2.3	26 ± 2.8	30 ± 3.1	28 ± 3.4
10000.0	10 ± 2.3	21 ± 3.5	24 ± 2.0	34 ± 4.5	20 ± 2.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			513 ± 25.8	207 ± 18.7	1444 ± 57.2
Positive Control ⁶	1489 ± 52.9	1573 ± 53.7			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	21 ± 2.3
100.0	30 ± 5.0
333.0	30 ± 0.9
1000.0	24 ± 2.6
3333.0	22 ± 6.1
10000.0	25 ± 1.3
Trial Summary	Negative
Positive Control ³	391 ± 17.7
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: Dimethyl Sulfoxide

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 ****