

Experiment Number: 474230

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

**G06: Ames Summary Data**

Test Compound: **Succinonitrile**

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

Date Report Requested: **09/11/2018**

Time Report Requested: **16:27:12**

**NTP Study Number:**

474230

**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 <sup>1</sup>	127 ± 6.1	94 ± 10.7	157 ± 7.2	124 ± 4.1	147 ± 7.7
100.0	115 ± 1.8	95 ± 6.9	151 ± 6.1	132 ± 3.8	131 ± 1.5
333.0	116 ± 2.7	80 ± 3.2	147 ± 3.9	109 ± 11.1	139 ± 6.7
1000.0	117 ± 3.5	89 ± 9.0	153 ± 3.8	103 ± 2.2	128 ± 9.3
3333.0	124 ± 5.9	91 ± 9.8	140 ± 3.2	108 ± 14.1	133 ± 5.5
10000.0	119 ± 6.5	94 ± 7.5	141 ± 4.2	119 ± 11.4	119 ± 7.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					615 ± 30.6
Positive Control <sup>3</sup>	277 ± 8.9	230 ± 6.7			
Positive Control <sup>4</sup>			533 ± 20.9		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>				360 ± 19.6	

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	129 ± 5.2
100.0	120 ± 9.8
333.0	120 ± 12.3
1000.0	119 ± 8.7
3333.0	135 ± 8.6
10000.0	127 ± 2.8
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	331 ± 13.9
Positive Control <sup>6</sup>	

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**Strain: TA1535**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 30% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	13 ± 1.5	26 ± 2.3	8 ± 1.9	11 ± 0.3	7 ± 0.6
100.0	17 ± 0.9	27 ± 1.7	11 ± 0.3	13 ± 1.8	9 ± 1.2
333.0	16 ± 1.2	29 ± 1.9	10 ± 2.3	14 ± 3.8	13 ± 0.9
1000.0	16 ± 0.6	23 ± 3.0	6 ± 0.7	14 ± 1.9	6 ± 2.0
3333.0	16 ± 6.1	24 ± 3.2	9 ± 3.0	9 ± 0.9	11 ± 0.6
10000.0	14 ± 2.2	25 ± 1.3	7 ± 1.5	13 ± 1.5	9 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					65 ± 5.2
Positive Control <sup>3</sup>	152 ± 7.0	240 ± 15.1			
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>			167 ± 9.8	92 ± 10.4	

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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	17 ± 0.5
100.0	9 ± 0.6
333.0	19 ± 0.7
1000.0	8 ± 0.7
3333.0	12 ± 0.9
10000.0	9 ± 1.2
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	79 ± 3.5
Positive Control <sup>6</sup>	

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## G06: Ames Summary Data

Test Compound: Succinonitrile

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	95 ± 4.1	98 ± 6.7	226 ± 7.9	197 ± 5.7	168 ± 7.3
100.0	91 ± 14.4	101 ± 0.9	209 ± 9.2	205 ± 16.5	165 ± 10.3
333.0	105 ± 10.3	91 ± 8.8	215 ± 10.0	236 ± 3.8	163 ± 12.6
1000.0	90 ± 3.0	91 ± 2.0	216 ± 0.7	200 ± 12.8	165 ± 7.1
3333.0	84 ± 9.5	93 ± 5.8	208 ± 21.5	178 ± 3.8	152 ± 5.6
10000.0	93 ± 6.2 <sup>s</sup>	92 ± 3.2	200 ± 2.0	196 ± 5.5	131 ± 7.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>					
Positive Control <sup>6</sup>			929 ± 6.5		
Positive Control <sup>7</sup>				386 ± 7.1	411 ± 14.7
Positive Control <sup>8</sup>	307 ± 23.1				
Positive Control <sup>9</sup>		333 ± 17.2			

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Strain: TA97

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Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	176 ± 3.5	196 ± 6.2
100.0	164 ± 7.8	198 ± 28.7
333.0	178 ± 2.0	190 ± 18.2
1000.0	181 ± 9.3	192 ± 39.9
3333.0	192 ± 4.5	217 ± 9.3
10000.0	206 ± 5.5	192 ± 32.2
Trial Summary	Negative	Negative
Positive Control <sup>4</sup>	903 ± 8.2	
Positive Control <sup>6</sup>		
Positive Control <sup>7</sup>		648 ± 10.9
Positive Control <sup>8</sup>		
Positive Control <sup>9</sup>		

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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 <sup>1</sup>	19 ± 1.5	25 ± 4.4	28 ± 5.7	33 ± 1.5	26 ± 1.0
100.0	16 ± 2.4	20 ± 2.3	22 ± 2.2	33 ± 0.3	29 ± 6.3
333.0	13 ± 1.5	20 ± 3.7	26 ± 6.5	32 ± 6.1	21 ± 4.2
1000.0	16 ± 1.3	24 ± 0.6	25 ± 1.5	40 ± 3.7	28 ± 3.6
3333.0	15 ± 2.4	22 ± 0.9	22 ± 3.2	31 ± 2.4	25 ± 5.0
10000.0	20 ± 2.4	20 ± 2.7	29 ± 3.4	31 ± 1.0	24 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>10</sup>					146 ± 4.3
Positive Control <sup>2</sup>			238 ± 11.3	104 ± 0.6	
Positive Control <sup>11</sup>	298 ± 7.9	160 ± 7.8			



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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	36 ± 5.4
100.0	39 ± 1.0
333.0	31 ± 0.6
1000.0	34 ± 1.9
3333.0	36 ± 4.2
10000.0	40 ± 3.6
Trial Summary	Negative
Positive Control <sup>10</sup>	
Positive Control <sup>2</sup>	80 ± 6.7
Positive Control <sup>11</sup>	

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## **LEGEND**

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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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 2-Aminoanthracene

8: 4.0 ug/Plate 9-Aminoacridine

9: 8.0 ug/Plate 9-Aminoacridine

10: 0.2 ug/Plate 2-Aminoanthracene

11: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**\*\* END OF REPORT \*\***