

Experiment Number: 582354

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Propionitrile

CAS Number: 107-12-0

Date Report Requested: 09/14/2018

Time Report Requested: 12:04:43

**NTP Study Number:**

582354

**Study Result:**

Negative

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Test Compound: Propionitrile

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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>	89 ± 2.5	104 ± 16.8	87 ± 1.7	94 ± 7.8	70 ± 2.5
100.0	94 ± 2.0	97 ± 2.1	92 ± 11.9	94 ± 8.5	80 ± 9.0
333.0	90 ± 4.1	93 ± 4.3	81 ± 1.3	94 ± 1.5	77 ± 4.7
1000.0	90 ± 2.0	101 ± 6.0	64 ± 7.0	96 ± 2.3	76 ± 4.6
3333.0	90 ± 13.4	91 ± 6.7	94 ± 5.2	102 ± 0.3	80 ± 1.5
10000.0	99 ± 5.5	95 ± 6.8	72 ± 3.5	122 ± 4.4	83 ± 2.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					335 ± 21.8
Positive Control <sup>3</sup>	482 ± 31.7	421 ± 10.5			
Positive Control <sup>4</sup>			726 ± 18.3		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>				364 ± 9.3	

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	87 ± 4.5
100.0	87 ± 4.0
333.0	90 ± 6.6
1000.0	90 ± 5.4
3333.0	101 ± 6.7
10000.0	95 ± 2.0
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	284 ± 13.2
Positive Control <sup>6</sup>	

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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 <sup>1</sup>	19 ± 2.9	19 ± 0.3	9 ± 1.5	31 ± 6.2	10 ± 0.7
100.0	25 ± 3.5	17 ± 3.5	10 ± 1.7	21 ± 4.3	9 ± 1.5
333.0	23 ± 2.0	15 ± 3.1	7 ± 1.0	22 ± 2.6	10 ± 1.2
1000.0	15 ± 1.8	12 ± 0.7	8 ± 1.2	21 ± 2.4	8 ± 2.2
3333.0	21 ± 1.5	16 ± 3.3	9 ± 1.2	15 ± 2.6	10 ± 1.2
10000.0	20 ± 0.3	22 ± 6.2	10 ± 0.9	14 ± 3.1	7 ± 1.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					59 ± 12.1
Positive Control <sup>3</sup>	290 ± 4.9	237 ± 10.5			
Positive Control <sup>5</sup>					
Positive Control <sup>7</sup>				126 ± 18.2	
Positive Control <sup>6</sup>			239 ± 8.6		

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G06: Ames Summary Data  
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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	9 ± 2.4
100.0	10 ± 1.3
333.0	11 ± 1.7
1000.0	9 ± 1.5
3333.0	7 ± 0.3
10000.0	4 ± 0.9
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	78 ± 3.5
Positive Control <sup>7</sup>	
Positive Control <sup>6</sup>	

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Test Compound: Propionitrile

CAS Number: 107-12-0

Date Report Requested: 09/14/2018

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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 <sup>1</sup>	92 ± 7.9	97 ± 8.8	125 ± 4.4	148 ± 10.4	136 ± 10.4
100.0	99 ± 2.5	104 ± 14.0	118 ± 0.6	154 ± 8.7	106 ± 5.4
333.0	127 ± 3.6	104 ± 7.0	120 ± 15.9	172 ± 1.9	99 ± 5.6
1000.0	94 ± 1.2	113 ± 11.1	116 ± 6.8	156 ± 5.0	113 ± 11.8
3333.0	98 ± 8.7	120 ± 1.3	109 ± 8.6	146 ± 7.3	121 ± 7.2
10000.0	79 ± 3.3	114 ± 15.0	119 ± 1.9	176 ± 10.5	110 ± 7.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>					374 ± 9.7
Positive Control <sup>6</sup>			1052 ± 41.0	410 ± 12.7	
Positive Control <sup>8</sup>	732 ± 22.8	285 ± 12.5			

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	206 ± 6.4	153 ± 9.0
100.0	233 ± 4.5	141 ± 4.4
333.0	256 ± 13.2	162 ± 4.4
1000.0	302 ± 16.5	162 ± 5.8
3333.0	260 ± 2.4	190 ± 6.7
10000.0	233 ± 31.8	181 ± 10.0
Trial Summary	Negative	Negative
Positive Control <sup>4</sup>		
Positive Control <sup>6</sup>	502 ± 45.6	487 ± 7.0
Positive Control <sup>8</sup>		

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Test Compound: Propionitrile

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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>	10 ± 0.3	24 ± 0.9	27 ± 3.9	29 ± 4.4	28 ± 1.5
100.0	17 ± 2.2	22 ± 3.5	31 ± 2.5	31 ± 4.4	25 ± 2.0
333.0	14 ± 0.3	28 ± 2.5	23 ± 2.0	29 ± 1.3	24 ± 2.3
1000.0	13 ± 1.9	21 ± 4.4	31 ± 2.7	30 ± 4.0	21 ± 2.2
3333.0	16 ± 1.5	19 ± 3.8	29 ± 3.2	23 ± 4.0	20 ± 1.9
10000.0	17 ± 0.7	30 ± 8.4	28 ± 3.4	25 ± 5.5	26 ± 0.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>9</sup>					147 ± 4.3
Positive Control <sup>2</sup>			248 ± 9.6		
Positive Control <sup>10</sup>	152 ± 10.4	215 ± 20.3			
Positive Control <sup>5</sup>				208 ± 9.5	



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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	43 ± 2.6
100.0	45 ± 2.1
333.0	41 ± 7.0
1000.0	34 ± 6.9
3333.0	41 ± 4.7
10000.0	42 ± 6.4
Trial Summary	Negative
Positive Control <sup>9</sup>	
Positive Control <sup>2</sup>	347 ± 41.5
Positive Control <sup>10</sup>	
Positive Control <sup>5</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: Dimethyl Sulfoxide

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: 1.5 ug/Plate 2-Aminoanthracene

8: 3.5 ug/Plate 9-Aminoacridine

9: 0.2 ug/Plate 2-Aminoanthracene

10: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

\*\* END OF REPORT \*\*