

Experiment Number: 152477

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

**G06: Ames Summary Data**

Test Compound: **5-Nitroacenaphthene**

CAS Number: **602-87-9**

Date Report Requested: **09/12/2018**

Time Report Requested: **15:15:05**

**NTP Study Number:**

152477

**Study Result:**

Positive

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Test Compound: 5-Nitroacenaphthene

CAS Number: 602-87-9

Date Report Requested: 09/12/2018

Time Report Requested: 15:15:05

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	106 ± 9.8	136 ± 4.6	129 ± 6.7	71 ± 3.3	82 ± 7.1
0.03				81 ± 4.1	
0.1			137 ± 5.2	111 ± 5.5	145 ± 8.1
0.3				136 ± 2.4	
1.0	154 ± 10.6	410 ± 119.8		199 ± 15.3	625 ± 19.0
2.0					1400 ± 24.5
2.5					1616 ± 331.1
3.3	227 ± 15.7	760 ± 8.3	304 ± 11.3	699 ± 17.6 <sup>s</sup>	2213 ± 34.9
10.0	558 ± 18.8	2111 ± 20.2	744 ± 19.3		
33.0	1401 ± 99.8	Toxic	2054 ± 37.3		
66.0	1435 ± 201.7 <sup>s</sup>	Toxic	366 ± 57.1 <sup>s</sup>		
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>				122 ± 11.0	1274 ± 77.9
Positive Control <sup>4</sup>	1788 ± 105.9	2923 ± 24.2	1481 ± 28.8		

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## Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	116 ± 5.2	70 ± 7.9	115 ± 5.7	120 ± 7.7
0.03		64 ± 5.5		
0.1	120 ± 0.6	69 ± 0.9	172 ± 7.5	127 ± 3.2
0.3		102 ± 10.5		
1.0	206 ± 7.9	268 ± 51.3	2683 ± 92.7	504 ± 27.8
2.0	407 ± 13.2		3142 ± 246.8	1295 ± 26.4
2.5	475 ± 22.0		3255 ± 96.8	1532 ± 37.5
3.3	743 ± 51.0	1238 ± 93.2 <sup>s</sup>	2012 ± 98.6	2175 ± 89.9
10.0				
33.0				
66.0				
Trial Summary	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>		1069 ± 85.1	2598 ± 55.9	2486 ± 88.1
Positive Control <sup>3</sup>	1279 ± 13.6			
Positive Control <sup>4</sup>				

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	29 ± 1.2	22 ± 1.8	31 ± 4.1	13 ± 2.6	11 ± 0.9
0.03				10 ± 1.5	
0.1			28 ± 0.6	10 ± 1.5	9 ± 1.0
0.3				13 ± 2.3	
1.0	27 ± 3.5	32 ± 4.2		14 ± 1.2	21 ± 2.4
2.0					36 ± 7.5
2.5					41 ± 0.9
3.3	32 ± 1.2	37 ± 4.0	23 ± 4.0	25 ± 6.0 <sup>s</sup>	46 ± 3.5
10.0	30 ± 2.0	33 ± 3.5	33 ± 2.8		
33.0	34 ± 1.5	Toxic	27 ± 3.0		
66.0	14 ± 2.3 <sup>s</sup>	Toxic	3 ± 0.7 <sup>s</sup>		
Trial Summary	Negative	Negative	Negative	Negative	Positive
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>				9 ± 0.0	104 ± 1.2
Positive Control <sup>4</sup>	1195 ± 35.9	2341 ± 111.9	1124 ± 19.2		

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## Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	11 ± 2.0	10 ± 2.0	10 ± 3.2	8 ± 3.8
0.03		10 ± 1.2		
0.1	13 ± 3.0	8 ± 1.2	11 ± 1.2	7 ± 1.7
0.3		8 ± 1.5		
1.0	16 ± 2.0	13 ± 1.7	27 ± 1.0	14 ± 0.3
2.0	19 ± 0.6		11 ± 1.9	20 ± 0.3
2.5	13 ± 3.0		8 ± 3.2	19 ± 1.7
3.3	22 ± 1.5	29 ± 3.2 <sup>s</sup>	1 ± 0.3	29 ± 1.2
10.0				
33.0				
66.0				
Trial Summary	Equivocal	Equivocal	Equivocal	Positive
Positive Control <sup>2</sup>		77 ± 6.4	179 ± 10.1	166 ± 14.2
Positive Control <sup>3</sup>	108 ± 9.2			
Positive Control <sup>4</sup>				

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## Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	6 ± 0.3	5 ± 2.6	7 ± 1.0	10 ± 1.8	7 ± 1.9
0.03				7 ± 1.2	
0.1			7 ± 1.9	6 ± 1.7	7 ± 1.5
0.3				11 ± 1.0	
1.0	7 ± 0.6	13 ± 1.5		12 ± 2.6	37 ± 2.2
2.0					72 ± 3.7
2.5					82 ± 2.2
3.3	9 ± 0.3	45 ± 2.0	13 ± 2.4	31 ± 0.6 <sup>s</sup>	95 ± 4.7
10.0	34 ± 3.2	114 ± 10.3	43 ± 8.1		
33.0	114 ± 23.2	0 ± 0.3 <sup>s</sup>	138 ± 6.4		
66.0	161 ± 11.9 <sup>s</sup>	Toxic	74 ± 11.2 <sup>s</sup>		
Trial Summary	Positive	Positive	Positive	Equivocal	Positive
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>				8 ± 1.2	126 ± 10.5
Positive Control <sup>5</sup>	391 ± 52.6	593 ± 97.3	363 ± 91.0		

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**Strain: TA1537**

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	13 ± 1.9	7 ± 1.5	10 ± 1.5	8 ± 0.6
0.03		7 ± 2.8		
0.1	8 ± 1.3	12 ± 1.5	13 ± 2.3	7 ± 0.9
0.3		8 ± 1.5		
1.0	14 ± 0.9	15 ± 3.2	100 ± 8.7	20 ± 0.6
2.0	24 ± 0.6		97 ± 23.8	43 ± 1.8
2.5	32 ± 2.6		48 ± 4.2	45 ± 1.8
3.3	36 ± 3.0	83 ± 5.5 <sup>s</sup>	13 ± 4.1	66 ± 5.6
10.0				
33.0				
66.0				
Trial Summary	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>		67 ± 5.6	247 ± 15.6	240 ± 11.8
Positive Control <sup>3</sup>	106 ± 8.3			
Positive Control <sup>5</sup>				

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	11 ± 0.7	15 ± 3.1	25 ± 3.5	21 ± 2.1	16 ± 1.8
0.03				18 ± 3.5	
0.1			14 ± 1.3	18 ± 0.3	28 ± 4.1
0.3				30 ± 2.2	
1.0	37 ± 3.8	74 ± 2.9		63 ± 1.2	283 ± 17.3
2.0					549 ± 26.2
2.5					840 ± 54.4
3.3	81 ± 0.6	316 ± 13.0	112 ± 7.5	227 ± 18.8 <sup>s</sup>	1128 ± 18.1
10.0	279 ± 9.0	886 ± 12.3	342 ± 21.8		
33.0	938 ± 75.4	360 ± 20.9 <sup>s</sup>	1085 ± 20.8		
66.0	1760 ± 24.3 <sup>s</sup>	1 ± 1.3 <sup>s</sup>	1560 ± 85.5 <sup>s</sup>		
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>				19 ± 1.5	971 ± 46.7
Positive Control <sup>6</sup>	1296 ± 26.3	2131 ± 40.0	1594 ± 33.9		



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## Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	25 ± 3.2	17 ± 1.2	21 ± 2.7	18 ± 1.9
0.03		22 ± 1.5		
0.1	26 ± 2.4	23 ± 2.4	47 ± 2.3	28 ± 2.1
0.3		36 ± 5.8		
1.0	69 ± 5.0	66 ± 13.8	1089 ± 36.4	184 ± 8.7
2.0	170 ± 9.8		2158 ± 32.2	409 ± 25.5
2.5	208 ± 8.4		2268 ± 22.3	664 ± 36.7
3.3	302 ± 16.8	375 ± 45.8 <sup>s</sup>	2225 ± 11.0	939 ± 18.2
10.0				
33.0				
66.0				
Trial Summary	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>		1151 ± 101.7	2707 ± 23.9	2082 ± 78.3
Positive Control <sup>3</sup>	1043 ± 38.3			
Positive Control <sup>6</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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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