

Experiment Number: 300390

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 2,4,7-Trinitro-fluoren-9-one

CAS Number: 129-79-3

Date Report Requested: 09/11/2018

Time Report Requested: 22:05:59

**NTP Study Number:** 300390

**Study Result:** Positive

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Test Compound: 2,4,7-Trinitro-fluoren-9-one  
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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	96 ± 4.2	124 ± 8.1	123 ± 5.0	129 ± 11.3	145 ± 5.0
0.03	135 ± 6.7	127 ± 3.4	162 ± 19.2		
0.1	256 ± 2.4	236 ± 7.3	215 ± 2.7		
0.3	360 ± 21.7	355 ± 13.4	421 ± 9.4		
1.0	474 ± 27.3	736 ± 17.9	862 ± 27.0	111 ± 3.5	
3.0	783 ± 64.6	1051 ± 18.8	1364 ± 18.2	110 ± 13.0	179 ± 6.9
6.0					318 ± 5.0
10.0				250 ± 11.1	428 ± 17.3
16.0					625 ± 7.9
33.0				899 ± 31.2	1060 ± 65.7
66.0				1184 ± 85.0	
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>					498 ± 9.8
Positive Control <sup>3</sup>	402 ± 23.7	466 ± 13.6	433 ± 6.7		
Positive Control <sup>4</sup>				615 ± 41.0	

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	125 ± 14.2	158 ± 11.3
0.03		
0.1		
0.3		
1.0	149 ± 3.8	175 ± 2.1
3.0	172 ± 6.5	193 ± 17.4
6.0		
10.0	316 ± 9.1	394 ± 11.4
16.0		559 ± 16.0
33.0	667 ± 27.1	1020 ± 26.2
66.0	914 ± 45.2	
Trial Summary	Positive	Positive
Positive Control <sup>2</sup>	654 ± 45.6	553 ± 54.3
Positive Control <sup>3</sup>		
Positive Control <sup>4</sup>		

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CAS Number: 129-79-3

## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	18 ± 1.3	17 ± 1.2	19 ± 0.7	20 ± 2.0	31 ± 1.3
0.0		60 ± 4.7	94 ± 5.1	19 ± 4.7	29 ± 0.3
					0.001
					0.003
					0.01
					0.03
	52 ± 9.8	44 ± 1.3	35 ± 5.4	38 ± 5.0	0.1
	66 ± 0.3	78 ± 9.5	36 ± 2.0	61 ± 0.9	0.3
	115 ± 15.7	101 ± 14.9	70 ± 7.2	88 ± 10.3	1.0
249 ± 31.7	266 ± 7.8	207 ± 13.9	122 ± 6.2	224 ± 42.7	1.6
	532 ± 50.0	161 ± 29.9	178 ± 11.0	310 ± 13.1	3.0
774 ± 19.4					10.0
1772 ± 63.7					33.0
0 ± 0.0 <sup>x</sup>					66.0
0 ± 0.0 <sup>x</sup>					
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>5</sup>					
Positive Control <sup>2</sup>					168 ± 7.3
Positive Control <sup>6</sup>	495 ± 25.5	561 ± 23.3	785 ± 24.7	785 ± 24.7	

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Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	33 ± 2.9	41 ± 6.0	47 ± 3.0	44 ± 4.0	32 ± 3.2
0.0	20 ± 3.8	13 ± 0.6	20 ± 1.9	18 ± 2.8	
		238 ± 13.9	50 ± 4.2	42 ± 5.2	
		420 ± 16.9	137 ± 8.7	115 ± 14.1	
	844 ± 7.6				
	1823 ± 71.4				
	0 ± 0.0 <sup>x</sup>				
	0 ± 0.0 <sup>x</sup>				120 ± 5.2
249 ± 31.7					
	0 ± 0.0 <sup>x</sup>				678 ± 62.1
774 ± 19.4					1537 ± 57.7
1772 ± 63.7					0 ± 0.0 <sup>x</sup>
0 ± 0.0 <sup>x</sup>					0 ± 0.0 <sup>x</sup>
0 ± 0.0 <sup>x</sup>					
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>5</sup>					
Positive Control <sup>2</sup>	160 ± 8.7	193 ± 10.9	151 ± 4.3	151 ± 4.3	367 ± 30.9
Positive Control <sup>6</sup>					

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## Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup> 0.0	28 ± 3.5	26 ± 2.8	24 ± 2.1	32 ± 4.4
	41 ± 3.5	47 ± 3.8	31 ± 15.9	45 ± 4.7
	44 ± 3.8	62 ± 7.4	41 ± 5.2	45 ± 2.8
	67 ± 6.9	76 ± 2.0	67 ± 3.4	53 ± 5.3
	85 ± 5.8	208 ± 9.1	112 ± 11.6	81 ± 0.6
249 ± 31.7	139 ± 3.0	188 ± 12.8	156 ± 26.0	103 ± 10.2
774 ± 19.4				
1772 ± 63.7				
0 ± 0.0 <sup>x</sup>				
0 ± 0.0 <sup>x</sup>				
Trial Summary	Positive	Positive	Positive	Positive
Positive Control <sup>5</sup>			297 ± 19.6	297 ± 19.6
Positive Control <sup>2</sup>	436 ± 2.5	471 ± 65.8		
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: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 0.5 ug/Plate 2-Aminoanthracene

6: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

x: Slight Toxicity and Precipitate

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