

Experiment Number: 116557

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 5-Nitro-o-anisidine

CAS Number: 99-59-2

Date Report Requested: 09/11/2018

Time Report Requested: 20:32:08

**NTP Study Number:**

116557

**Study Result:**

Positive

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	89 ± 7.4	117 ± 6.1	114 ± 8.6	114 ± 6.8	103 ± 9.6
10.0		135 ± 9.9		131 ± 7.5	
33.0	130 ± 5.2		198 ± 7.5		411 ± 15.6
100.0	169 ± 8.5	165 ± 3.7	251 ± 20.9	208 ± 5.0	750 ± 27.1
333.0	282 ± 12.9	278 ± 9.1	327 ± 14.6	285 ± 13.5	1171 ± 9.3
1000.0	496 ± 3.6	481 ± 21.0	622 ± 67.4	561 ± 27.7	1245 ± 34.1
2000.0		525 ± 5.8 <sup>s</sup>		862 ± 9.2 <sup>s</sup>	
3333.0	Toxic		424 ± 23.2 <sup>s</sup>		549 ± 42.1 <sup>s</sup>
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>					1011 ± 72.0
Positive Control <sup>3</sup>			810 ± 84.8	1173 ± 20.1	
Positive Control <sup>4</sup>	2525 ± 53.4	2397 ± 23.2			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	89 ± 5.8
10.0	146 ± 2.1
33.0	
100.0	688 ± 29.8
333.0	1185 ± 18.8
1000.0	1313 ± 42.9 <sup>s</sup>
2000.0	1168 ± 34.6 <sup>s</sup>
3333.0	
Trial Summary	Positive
Positive Control <sup>2</sup>	1288 ± 61.2
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	24 ± 3.8	44 ± 4.9	8 ± 1.5	12 ± 1.2	7 ± 1.0
10.0		51 ± 2.0		13 ± 0.3	
33.0	30 ± 3.7		15 ± 1.2		14 ± 0.9
100.0	34 ± 2.9	41 ± 2.3	12 ± 0.9	11 ± 1.0	28 ± 1.8
333.0	37 ± 4.7	44 ± 2.2	17 ± 4.0	19 ± 0.9	34 ± 4.1
1000.0	30 ± 1.5	47 ± 1.9	26 ± 0.3	26 ± 2.4	35 ± 2.4
2000.0		32 ± 1.5 <sup>s</sup>		30 ± 0.9 <sup>s</sup>	
3333.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control <sup>2</sup>					88 ± 8.1
Positive Control <sup>3</sup>			68 ± 3.6	113 ± 9.7	
Positive Control <sup>4</sup>	2050 ± 60.1	1921 ± 88.4			

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	7 ± 1.2
10.0	10 ± 2.2
33.0	
100.0	18 ± 1.9
333.0	49 ± 2.7
1000.0	38 ± 3.7
2000.0	27 ± 3.5 <sup>s</sup>
3333.0	
Trial Summary	Positive
Positive Control <sup>2</sup>	156 ± 9.8
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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## Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	8 ± 2.5	6 ± 1.5	9 ± 2.3	8 ± 1.2	7 ± 0.9
10.0		22 ± 2.0		14 ± 3.5	
33.0	58 ± 3.2		22 ± 2.2		56 ± 3.5
100.0	207 ± 11.8	178 ± 11.0	38 ± 2.2	46 ± 1.9	194 ± 6.8
333.0	797 ± 21.7	774 ± 32.0	200 ± 21.4	185 ± 11.7	988 ± 48.1
1000.0	1752 ± 94.3	2117 ± 44.0	1174 ± 59.9	1100 ± 32.1	1993 ± 62.3
2000.0		1601 ± 169.6 <sup>s</sup>		2191 ± 55.4	
3333.0	437 ± 112.3 <sup>s</sup>		1268 ± 102.2 <sup>s</sup>		916 ± 53.7 <sup>s</sup>
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>					133 ± 16.2
Positive Control <sup>3</sup>			66 ± 2.7	156 ± 3.2	
Positive Control <sup>5</sup>	462 ± 82.6	269 ± 7.2			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	7 ± 2.5
10.0	22 ± 3.7
33.0	
100.0	203 ± 4.6
333.0	862 ± 28.2
1000.0	2110 ± 21.3
2000.0	2245 ± 119.5 <sup>s</sup>
3333.0	
Trial Summary	Positive
Positive Control <sup>2</sup>	158 ± 6.4
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	

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**Strain: TA98**

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	18 ± 3.9	11 ± 1.9	23 ± 3.8	21 ± 1.2	24 ± 1.2
10.0		238 ± 3.4		56 ± 7.6	
33.0	598 ± 16.5		211 ± 12.9		949 ± 19.6
100.0	1686 ± 33.1	1888 ± 59.1	566 ± 27.6	562 ± 23.4	2555 ± 58.6
333.0	3513 ± 89.0	3661 ± 21.3	2938 ± 57.9	2708 ± 74.1	3939 ± 223.5
1000.0	4187 ± 74.3	4031 ± 20.8	4220 ± 99.6	4289 ± 18.3	4093 ± 92.3
2000.0		4083 ± 33.2		4225 ± 33.2	
3333.0	4302 ± 33.2		4193 ± 30.9		3962 ± 97.1
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>					1501 ± 58.7
Positive Control <sup>3</sup>			817 ± 57.4	1258 ± 45.2	
Positive Control <sup>6</sup>	1519 ± 37.1	1780 ± 12.6			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	25 ± 2.2
10.0	213 ± 20.8
33.0	
100.0	2690 ± 88.6
333.0	4116 ± 86.0
1000.0	4249 ± 14.6
2000.0	4322 ± 54.6
3333.0	
Trial Summary	Positive
Positive Control <sup>2</sup>	1279 ± 49.7
Positive Control <sup>3</sup>	
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 \*\***