

Experiment Number: 150557

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

**G06: Ames Summary Data**

Test Compound: **4-Biphenylamine**

CAS Number: **92-67-1**

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

Time Report Requested: **14:53:19**

**NTP Study Number:**

150557

**Study Result:**

Positive

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## Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	139 ± 7.8	159 ± 4.4	112 ± 7.9	163 ± 8.8	129 ± 6.9
3.0			298 ± 17.0		351 ± 13.9
10.0	113 ± 5.8	701 ± 17.8	757 ± 45.8	591 ± 39.4	734 ± 57.4
33.0	111 ± 8.1	1044 ± 20.8	1331 ± 45.3	922 ± 31.7	945 ± 50.8
100.0	0 ± 0.0 <sup>s</sup>	1091 ± 14.7	1195 ± 54.2	901 ± 3.2	943 ± 58.9
333.0	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	85 ± 56.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	Toxic
1000.0	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>		0 ± 0.0 <sup>s</sup>	
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>		735 ± 22.3	551 ± 3.5	1796 ± 23.7	1290 ± 45.3
Positive Control <sup>3</sup>	434 ± 3.7				

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	27 ± 0.9	46 ± 3.8	42 ± 4.5
10.0	24 ± 1.7	30 ± 0.6	27 ± 4.9
33.0	24 ± 1.5	31 ± 2.4	24 ± 2.0
100.0	15 ± 1.8	23 ± 2.7	12 ± 2.9
333.0	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>
1000.0	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>3</sup>	427 ± 7.1		
Positive Control <sup>4</sup>		277 ± 7.1	536 ± 12.8

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## Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	5 ± 0.9	10 ± 1.0	8 ± 3.2	5 ± 0.6	8 ± 2.9
3.0			13 ± 0.6		15 ± 5.2
10.0	9 ± 1.7	22 ± 5.0	25 ± 1.9	25 ± 2.3	29 ± 2.0
33.0	6 ± 0.9	40 ± 6.5	48 ± 2.7	69 ± 3.2	72 ± 4.8
100.0	3 ± 0.6	77 ± 8.3	79 ± 4.4	65 ± 5.6	90 ± 5.0
333.0	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	2 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	Toxic
1000.0	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>		0 ± 0.0 <sup>s</sup>	
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control <sup>4</sup>		167 ± 14.8	164 ± 4.8	500 ± 5.5	345 ± 15.0
Positive Control <sup>5</sup>	172 ± 4.7				

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Test Compound: 4-Biphenylamine

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## Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	29 ± 2.2	42 ± 1.0	37 ± 3.5	37 ± 3.7	37 ± 4.3
3.0			123 ± 9.9		115 ± 9.0
10.0	19 ± 3.5	325 ± 21.9	367 ± 27.8	427 ± 26.0	302 ± 45.4
33.0	23 ± 2.5	734 ± 41.5	852 ± 48.1	825 ± 74.8	549 ± 79.8
100.0	28 ± 4.0	886 ± 85.7	766 ± 85.5	969 ± 72.3	605 ± 25.7
333.0	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	93 ± 5.0 <sup>s</sup>	Toxic	Toxic
1000.0	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>		Toxic	
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>		563 ± 13.9		1514 ± 107.5	1027 ± 53.1
Positive Control <sup>6</sup>	724 ± 7.1		382 ± 27.0		

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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: 95% Ethanol

2: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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