

Experiment Number: 512660

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Biphenyl

CAS Number: 92-52-4

Date Report Requested: 09/12/2018

Time Report Requested: 11:38:21

**NTP Study Number:**

512660

**Study Result:**

Negative

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**Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	173 ± 24.3	116 ± 3.8	146 ± 2.8	157 ± 7.8	156 ± 10.9
1.0	173 ± 14.8	110 ± 6.9	169 ± 13.1	182 ± 0.7	165 ± 6.5
3.3	176 ± 15.3	103 ± 3.4	158 ± 7.9	160 ± 7.8	153 ± 3.6
10.0	146 ± 23.2	101 ± 10.0	151 ± 3.3	164 ± 2.8	164 ± 3.4
33.0	135 ± 44.0	85 ± 6.2	152 ± 4.9	165 ± 2.2	151 ± 12.5
100.0	90 ± 42.5	67 ± 9.0	154 ± 9.9	163 ± 15.1	160 ± 6.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			297 ± 5.7	357 ± 14.9	641 ± 81.0
Positive Control <sup>3</sup>	447 ± 32.4	375 ± 19.9			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	155 ± 7.5
1.0	164 ± 6.6
3.3	189 ± 18.3
10.0	118 ± 45.0
33.0	175 ± 13.6
100.0	161 ± 12.7
Trial Summary	Negative
Positive Control <sup>2</sup>	587 ± 49.8
Positive Control <sup>3</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>	12 ± 1.2	4 ± 0.9	10 ± 0.3	9 ± 0.7	13 ± 0.6
1.0	11 ± 1.2	7 ± 1.8	6 ± 1.0	6 ± 0.3	11 ± 0.3
3.3	9 ± 1.5	6 ± 1.5	6 ± 1.3	6 ± 1.0	9 ± 2.0
10.0	5 ± 1.5	4 ± 1.9	8 ± 1.0	6 ± 0.9	7 ± 1.5
33.0	10 ± 2.3	5 ± 0.9	6 ± 2.8	6 ± 0.7	7 ± 1.5
100.0	11 ± 1.9	5 ± 1.2	9 ± 2.1	7 ± 0.6	9 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			29 ± 4.8	18 ± 0.6	42 ± 7.2
Positive Control <sup>3</sup>	269 ± 9.1	333 ± 25.9			

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	6 ± 0.9
1.0	4 ± 0.9
3.3	4 ± 0.0
10.0	4 ± 0.7
33.0	6 ± 1.7
100.0	9 ± 2.4
Trial Summary	Negative
Positive Control <sup>2</sup>	29 ± 2.7
Positive Control <sup>3</sup>	

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Test Compound: Biphenyl

CAS Number: 92-52-4

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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>	7 ± 1.0	6 ± 0.9	9 ± 0.6	9 ± 1.2	9 ± 1.2
1.0	5 ± 1.5	6 ± 1.5	6 ± 1.5	12 ± 3.0	7 ± 1.5
3.3	5 ± 0.9	5 ± 0.9	5 ± 0.9	11 ± 3.2	8 ± 1.2
10.0	7 ± 0.6	6 ± 1.2	8 ± 1.2	8 ± 0.3	5 ± 0.6
33.0	3 ± 0.6	6 ± 1.7	7 ± 1.5	7 ± 0.3	8 ± 2.3
100.0	4 ± 1.5	6 ± 1.5	7 ± 1.2	7 ± 0.3	6 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			21 ± 3.5	36 ± 11.6	75 ± 16.5
Positive Control <sup>4</sup>	297 ± 31.7	122 ± 5.8			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	9 ± 0.6
1.0	8 ± 0.7
3.3	8 ± 0.6
10.0	8 ± 1.5
33.0	8 ± 0.3
100.0	6 ± 0.6
Trial Summary	Negative
Positive Control <sup>2</sup>	64 ± 3.9
Positive Control <sup>4</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>	15 ± 1.5	14 ± 0.6	19 ± 1.2	19 ± 1.2	19 ± 3.7
1.0	15 ± 3.0	15 ± 1.5	19 ± 3.1	23 ± 2.3	19 ± 1.9
3.3	13 ± 1.5	11 ± 1.3	22 ± 5.4	20 ± 1.2	20 ± 1.7
10.0	11 ± 3.5	12 ± 1.2	18 ± 2.1	15 ± 1.5	18 ± 1.7
33.0	8 ± 1.3	13 ± 3.8	20 ± 1.7	21 ± 1.8	16 ± 2.7
100.0	7 ± 0.6	13 ± 3.5	22 ± 0.9	17 ± 2.6	19 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			189 ± 16.2	333 ± 22.4	610 ± 93.7
Positive Control <sup>5</sup>	283 ± 14.2	266 ± 4.5			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	19 ± 0.0
1.0	28 ± 4.6
3.3	31 ± 5.9
10.0	29 ± 6.4
33.0	26 ± 5.0
100.0	23 ± 2.2
Trial Summary	Negative
Positive Control <sup>2</sup>	718 ± 101.4
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: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

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