

Experiment Number: 121112

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: **01:55:01**

NTP Study Number:

121112

Study Result:

Positive

Experiment Number: 121112

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: 01:55:01

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 ¹ | 112 ± 7.1 | 82 ± 5.2 | 88 ± 4.7 | 82 ± 7.2 | 101 ± 9.3 |
| 2.0 | 100 ± 4.7 | 182 ± 2.9 | 254 ± 11.9 | 211 ± 20.7 | 228 ± 16.5 |
| 7.0 | 94 ± 9.9 | 573 ± 32.7 | 569 ± 7.8 | 511 ± 31.1 | 492 ± 33.9 |
| 21.0 | 105 ± 11.2 | 1239 ± 54.1 | 1603 ± 46.7 | 1165 ± 59.9 | 1301 ± 31.0 |
| 67.0 | 104 ± 2.6 | 1845 ± 87.0 | 3033 ± 68.3 | 2299 ± 47.6 | 2028 ± 61.5 |
| 200.0 | Toxic | 2179 ± 210.0 | 2941 ± 66.1 | 2116 ± 357.4 | 2291 ± 61.8 |
| Trial Summary | Negative | Positive | Positive | Positive | Positive |
| Positive Control ² | | | | 3063 ± 100.5 | 2777 ± 117.3 |
| Positive Control ³ | | 2760 ± 56.6 | 1862 ± 63.3 | | |
| Positive Control ⁴ | 1972 ± 47.7 | | | | |

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G06: Ames Summary Data

Test Compound: 4-Biphenylamine

CAS Number: 92-67-1

Date Report Requested: 09/12/2018

Time Report Requested: 01:55:01

Strain: TA1535

| Dose (ug/Plate) | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 | With 10% Hamster S9 |
|-------------------------------|----------------------|-----------------|-----------------|---------------------|---------------------|
| Vehicle Control ¹ | 15 ± 1.5 | 10 ± 4.2 | 4 ± 1.2 | 7 ± 0.6 | 7 ± 1.2 |
| 2.0 | 13 ± 1.7 | 11 ± 3.7 | 3 ± 0.6 | 6 ± 1.5 | 6 ± 2.0 |
| 7.0 | 16 ± 1.7 | 11 ± 2.9 | 5 ± 1.2 | 10 ± 1.2 | 9 ± 1.2 |
| 21.0 | 13 ± 2.6 | 24 ± 0.3 | 11 ± 0.6 | 19 ± 2.3 | 12 ± 1.2 |
| 67.0 | 16 ± 1.5 | 35 ± 1.7 | 17 ± 5.2 | 24 ± 2.0 | 17 ± 1.5 |
| 200.0 | 9 ± 0.6 ^s | 34 ± 2.8 | 19 ± 6.7 | 24 ± 4.8 | 15 ± 2.4 |
| Trial Summary | Negative | Positive | Weakly Positive | Positive | Equivocal |
| Positive Control ² | | | | 228 ± 21.5 | 199 ± 6.9 |
| Positive Control ³ | | 179 ± 10.4 | 149 ± 7.5 | | |
| Positive Control ⁴ | 1268 ± 52.3 | | | | |

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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: 01:55:01

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 ¹ | 5 ± 0.7 | 8 ± 3.0 | 5 ± 1.8 | 10 ± 0.0 | 10 ± 1.2 |
| 2.0 | 6 ± 1.2 | 14 ± 2.0 | 7 ± 2.0 | 8 ± 1.2 | 8 ± 2.0 |
| 7.0 | 7 ± 0.7 | 17 ± 3.0 | 16 ± 0.0 | 17 ± 4.0 | 11 ± 2.0 |
| 21.0 | 7 ± 1.2 | 27 ± 2.2 | 33 ± 3.5 | 30 ± 1.7 | 23 ± 1.9 |
| 67.0 | 5 ± 0.3 | 32 ± 3.2 | 64 ± 3.5 | 40 ± 1.5 | 25 ± 2.3 |
| 200.0 | Toxic | 35 ± 0.9 | 52 ± 1.5 | 35 ± 4.6 | 27 ± 3.5 |
| Trial Summary | Negative | Positive | Positive | Positive | Weakly Positive |
| Positive Control ² | | | | 208 ± 25.3 | 81 ± 4.4 |
| Positive Control ³ | | 139 ± 13.7 | 139 ± 10.2 | | |
| Positive Control ⁵ | 332 ± 47.4 | | | | |

Experiment Number: 121112

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: 01:55:01

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 ¹ | 19 ± 2.6 | 30 ± 1.5 | 13 ± 0.6 | 14 ± 2.3 | 25 ± 1.5 |
| 2.0 | 23 ± 1.3 | 68 ± 5.6 | 56 ± 17.9 | 51 ± 3.1 | 57 ± 4.5 |
| 7.0 | 18 ± 2.7 | 151 ± 12.4 | 180 ± 15.0 | 178 ± 1.5 | 186 ± 11.5 |
| 21.0 | 20 ± 3.5 | 453 ± 9.6 | 323 ± 75.4 | 381 ± 5.7 | 369 ± 31.3 |
| 67.0 | 18 ± 3.4 | 986 ± 90.9 | 586 ± 96.4 | 881 ± 28.9 | 931 ± 19.1 |
| 200.0 | Toxic | 1224 ± 55.1 | 838 ± 197.6 | 1421 ± 95.9 | 1271 ± 11.0 |
| Trial Summary | Negative | Positive | Positive | Positive | Positive |
| Positive Control ² | | | | 3170 ± 27.0 | 2423 ± 74.8 |
| Positive Control ³ | | 2597 ± 76.7 | 1618 ± 62.3 | | |
| Positive Control ⁶ | 1984 ± 78.6 | | | | |

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LEGEND

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 ****