

Experiment Number: 156480

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Biphenylamine

CAS Number: 90-41-5

Date Report Requested: 09/12/2018

Time Report Requested: 21:01:10

NTP Study Number: 156480

Study Result: Positive

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Test Compound: 2-Biphenylamine

CAS Number: 90-41-5

Date Report Requested: 09/12/2018

Time Report Requested: 21:01:10

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------|-----------------------|------------------------|-----------------|------------------------|
| Vehicle Control ¹ | 105 ± 11.5 | 111 ± 10.7 | 101 ± 6.2 | 123 ± 1.9 | 94 ± 3.5 |
| 3.3 | 100 ± 2.6 | 93 ± 1.2 | 100 ± 3.9 | 120 ± 8.6 | 98 ± 7.4 |
| 10.0 | 115 ± 4.0 | 113 ± 8.0 | 114 ± 5.4 | 122 ± 8.5 | 95 ± 8.7 |
| 33.0 | 111 ± 9.3 | 104 ± 2.3 | 171 ± 3.1 | 203 ± 22.2 | 106 ± 7.1 |
| 100.0 | 111 ± 2.1 | 108 ± 5.5 | 340 ± 12.2 | 370 ± 10.7 | 193 ± 7.9 |
| 200.0 | Toxic | 93 ± 7.4 ^s | 439 ± 9.4 ^s | 480 ± 6.4 | 250 ± 6.4 ^s |
| Trial Summary | Negative | Negative | Positive | Positive | Positive |
| Positive Control ² | | | | | 935 ± 23.1 |
| Positive Control ³ | | | 2407 ± 52.8 | 1382 ± 82.0 | |
| Positive Control ⁴ | 1090 ± 9.7 | 1281 ± 15.7 | | | |

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Strain: TA100

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|---------------------|
| Vehicle Control ¹ | 119 ± 4.4 |
| 3.3 | 117 ± 8.7 |
| 10.0 | 128 ± 8.5 |
| 33.0 | 182 ± 1.5 |
| 100.0 | 259 ± 3.0 |
| 200.0 | 330 ± 8.5 |
| Trial Summary | Positive |
| Positive Control ² | 1539 ± 15.7 |
| Positive Control ³ | |
| Positive Control ⁴ | |

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Strain: TA1535

| Dose (ug/Plate) | Without S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-----------------------|------------------------|----------------------------|
| Vehicle Control ¹ | 22 ± 3.8 | 9 ± 1.2 | 8 ± 0.9 |
| 3.3 | 22 ± 3.1 | 11 ± 2.6 | 9 ± 2.1 |
| 10.0 | 21 ± 1.7 | 12 ± 1.8 | 6 ± 1.9 |
| 33.0 | 23 ± 2.7 | 8 ± 0.3 | 9 ± 1.2 |
| 100.0 | 25 ± 1.9 | 11 ± 1.2 ^s | 11 ± 1.2 |
| 200.0 | 15 ± 1.2 ^s | 11 ± 2.4 ^s | 12 ± 2.3 ^s |
| Trial Summary | Negative | Negative | Negative |
| Positive Control ² | | | 58 ± 4.4 |
| Positive Control ³ | | 111 ± 3.3 | |
| Positive Control ⁴ | 690 ± 55.8 | | |

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 Test Compound: 2-Biphenylamine
 CAS Number: 90-41-5

Date Report Requested: 09/12/2018
 Time Report Requested: 21:01:10

Strain: TA97

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-----------------------|-------------------------|------------------------|-----------------|------------------------|
| Vehicle Control ¹ | 83 ± 4.8 | 107 ± 0.3 | 54 ± 4.2 | 176 ± 4.7 | 52 ± 1.5 |
| 3.3 | 79 ± 8.9 | 110 ± 8.3 | 84 ± 9.7 | 180 ± 5.8 | 74 ± 2.2 |
| 10.0 | 84 ± 4.8 | 109 ± 12.3 | 94 ± 2.6 | 178 ± 6.5 | 104 ± 8.6 |
| 33.0 | 85 ± 3.8 | 136 ± 12.9 | 131 ± 11.1 | 196 ± 10.4 | 90 ± 3.5 |
| 100.0 | 103 ± 3.2 | 137 ± 4.6 | 194 ± 13.3 | 295 ± 3.5 | 130 ± 18.5 |
| 200.0 | 50 ± 2.3 ^s | 122 ± 11.1 ^s | 204 ± 9.9 ^s | 319 ± 12.6 | 125 ± 2.4 ^s |
| Trial Summary | Negative | Negative | Positive | Weakly Positive | Positive |
| Positive Control ² | | | | | 729 ± 2.3 |
| Positive Control ³ | | | 1075 ± 36.4 | 909 ± 32.8 | |
| Positive Control ⁵ | 442 ± 27.3 | 1645 ± 87.7 | | | |

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Test Compound: 2-Biphenylamine
CAS Number: 90-41-5

Date Report Requested: 09/12/2018
Time Report Requested: 21:01:10

Strain: TA97

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|---------------------|
| Vehicle Control ¹ | 175 ± 7.6 |
| 3.3 | 178 ± 5.3 |
| 10.0 | 177 ± 1.8 |
| 33.0 | 194 ± 6.8 |
| 100.0 | 266 ± 13.5 |
| 200.0 | 283 ± 7.4 |
| Trial Summary | Weakly Positive |
| Positive Control ² | 870 ± 30.0 |
| Positive Control ³ | |
| Positive Control ⁵ | |

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G06: Ames Summary Data

Test Compound: 2-Biphenylamine

CAS Number: 90-41-5

Date Report Requested: 09/12/2018

Time Report Requested: 21:01:10

Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|----------------------|-----------------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 22 ± 3.5 | 18 ± 2.1 | 32 ± 2.7 | 29 ± 3.9 | 29 ± 1.5 |
| 3.3 | 18 ± 1.0 | 15 ± 1.9 | 37 ± 1.7 | 26 ± 5.5 | 30 ± 3.8 |
| 10.0 | 17 ± 1.7 | 16 ± 3.8 | 39 ± 6.4 | 30 ± 1.7 | 32 ± 2.8 |
| 33.0 | 18 ± 0.3 | 12 ± 1.9 | 50 ± 6.1 | 40 ± 3.2 | 44 ± 3.2 |
| 100.0 | 16 ± 2.1 | 19 ± 0.0 | 98 ± 3.0 | 95 ± 4.5 | 71 ± 11.2 |
| 200.0 | 8 ± 1.5 ^s | 14 ± 2.0 ^s | 120 ± 4.3 | 126 ± 5.2 | 72 ± 10.7 |
| Trial Summary | Negative | Negative | Positive | Positive | Weakly Positive |
| Positive Control ² | | | | | 561 ± 14.4 |
| Positive Control ³ | | | 1266 ± 235.4 | 967 ± 34.3 | |
| Positive Control ⁶ | 1456 ± 21.7 | 1425 ± 51.8 | | | |

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Time Report Requested: 21:01:10

Strain: TA98

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|---------------------|
| Vehicle Control ¹ | 49 ± 1.8 |
| 3.3 | 34 ± 7.4 |
| 10.0 | 32 ± 0.9 |
| 33.0 | 35 ± 1.5 |
| 100.0 | 69 ± 2.4 |
| 200.0 | 100 ± 4.8 |
| Trial Summary | Weakly Positive |
| Positive Control ² | 1127 ± 41.8 |
| Positive Control ³ | |
| Positive Control 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: 4.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****