

Experiment Number: 828041

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 2-Naphthylamine

CAS Number: 91-59-8

Date Report Requested: 09/15/2018

Time Report Requested: 18:57:07

**NTP Study Number:**

828041

**Study Result:**

Positive

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## G06: Ames Summary Data

Test Compound: 2-Naphthylamine

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## Strain: TA100

| Dose (ug/Plate)               | Without S9 | With 30% Rat S9 | With 30% Rat S9 | With 30% Hamster S9 | With 30% Hamster S9 |
|-------------------------------|------------|-----------------|-----------------|---------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 120 ± 9.0  | 127 ± 11.7      | 139 ± 13.2      | 129 ± 7.8           | 106 ± 5.4           |
| 0.3                           |            |                 | 165 ± 10.0      |                     |                     |
| 1.0                           |            |                 | 185 ± 1.8       |                     | 129 ± 2.8           |
| 3.0                           | 101 ± 6.1  | 308 ± 4.0       | 248 ± 13.4      | 177 ± 8.6           | 164 ± 1.5           |
| 6.0                           |            |                 | 318 ± 12.1      |                     |                     |
| 10.0                          | 120 ± 6.9  | 604 ± 23.9      | 740 ± 49.9      | 256 ± 5.8           | 358 ± 8.0           |
| 16.0                          |            |                 |                 |                     | 358 ± 25.5          |
| 33.0                          | 96 ± 2.9   | 709 ± 31.5      |                 | 796 ± 36.3          | 478 ± 243.8         |
| 100.0                         | 114 ± 9.2  | 1002 ± 29.4     |                 | 1588 ± 50.2         |                     |
| 333.0                         | 125 ± 4.3  | 754 ± 40.5      |                 | 1384 ± 44.4         |                     |
| Trial Summary                 | Negative   | Positive        | Positive        | Positive            | Positive            |
| Positive Control <sup>2</sup> |            |                 |                 | 544 ± 33.9          | 541 ± 13.5          |
| Positive Control <sup>3</sup> | 563 ± 26.1 |                 |                 |                     |                     |
| Positive Control <sup>4</sup> |            |                 | 787 ± 42.9      |                     |                     |
| Positive Control <sup>5</sup> |            | 606 ± 19.7      |                 |                     |                     |

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## Strain: TA98

| Dose (ug/Plate)               | Without S9 | With 30% Rat S9 | With 30% Rat S9 | With 30% Hamster S9 | With 30% Hamster S9 |
|-------------------------------|------------|-----------------|-----------------|---------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 18 ± 2.5   | 34 ± 3.3        | 14 ± 2.7        | 30 ± 2.3            | 30 ± 1.5            |
| 1.0                           |            |                 | 30 ± 1.8        |                     |                     |
| 3.0                           | 23 ± 3.8   | 57 ± 3.7        | 39 ± 4.3        | 41 ± 2.4            | 41 ± 6.4            |
| 10.0                          | 21 ± 1.5   | 95 ± 9.3        | 163 ± 4.9       | 59 ± 7.9            | 91 ± 8.1            |
| 16.0                          |            |                 | 144 ± 8.0       |                     |                     |
| 33.0                          | 21 ± 2.6   | 208 ± 3.9       | 217 ± 11.5      | 149 ± 6.9           | 228 ± 23.1          |
| 66.0                          |            |                 |                 |                     | 348 ± 49.2          |
| 100.0                         | 21 ± 1.5   | 265 ± 3.8       |                 | 329 ± 2.8           | 442 ± 13.4          |
| 333.0                         | 18 ± 0.6   | 196 ± 12.3      |                 | 348 ± 45.3          |                     |
| Trial Summary                 | Negative   | Positive        | Positive        | Positive            | Positive            |
| Positive Control <sup>2</sup> |            | 108 ± 8.7       | 159 ± 17.1      | 376 ± 14.1          | 294 ± 3.2           |
| Positive Control <sup>6</sup> | 698 ± 50.8 |                 |                 |                     |                     |

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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: 1.0 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate 2-Aminoanthracene

6: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

\*\* END OF REPORT \*\*