

Experiment Number: 806836

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: AF-2

CAS Number: 3688-53-7

Date Report Requested: 09/15/2018

Time Report Requested: 09:30:12

**NTP Study Number:**

806836

**Study Result:**

Positive

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## Strain: TA100

| Dose (ug/Plate)               | Without S9 | Without S9 | With 30% Rat S9 | With 30% Rat S9 | With 30% Hamster S9     |
|-------------------------------|------------|------------|-----------------|-----------------|-------------------------|
| Vehicle Control <sup>1</sup>  | 141 ± 0.7  | 143 ± 3.0  | 171 ± 4.0       | 143 ± 2.1       | 173 ± 3.8               |
| 0.0                           | 165 ± 10.4 | 150 ± 3.3  |                 |                 |                         |
| 0.001                         | 203 ± 8.7  | 160 ± 8.6  |                 |                 |                         |
| 0.003                         | 268 ± 14.8 | 280 ± 13.1 |                 | 148 ± 7.1       |                         |
| 0.01                          | 552 ± 13.3 | 439 ± 11.2 |                 | 152 ± 5.9       |                         |
| 0.016                         | 577 ± 29.3 | 481 ± 14.4 |                 |                 |                         |
| 0.03                          |            |            | 269 ± 9.3       | 168 ± 4.2       | 327 ± 11.9              |
| 0.1                           |            |            | 410 ± 27.0      | 206 ± 10.4      | 425 ± 25.0              |
| 0.3                           |            |            | 512 ± 44.5      | 306 ± 22.3      | 511 ± 34.1              |
| 1.0                           |            |            | 492 ± 14.0      |                 | 342 ± 9.6               |
| 3.0                           |            |            | 388 ± 64.7      |                 | 187 ± 13.8 <sup>s</sup> |
| Trial Summary                 | Positive   | Positive   | Positive        | Positive        | Positive                |
| Positive Control <sup>2</sup> |            |            |                 |                 | 624 ± 30.8              |
| Positive Control <sup>3</sup> | 670 ± 2.9  | 569 ± 8.0  |                 |                 |                         |
| Positive Control <sup>4</sup> |            |            | 545 ± 18.5      | 444 ± 7.8       |                         |

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**Strain: TA100**

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| <b>Dose (ug/Plate)</b>        | <b>With 30% Hamster S9</b> |
|-------------------------------|----------------------------|
| Vehicle Control <sup>1</sup>  | 157 ± 4.6                  |
| 0.0                           |                            |
| 0.001                         |                            |
| 0.003                         | 138 ± 1.0                  |
| 0.01                          | 136 ± 4.3                  |
| 0.016                         |                            |
| 0.03                          | 170 ± 2.3                  |
| 0.1                           | 193 ± 7.7                  |
| 0.3                           | 292 ± 15.7                 |
| 1.0                           |                            |
| 3.0                           |                            |
| Trial Summary                 | Positive                   |
| Positive Control <sup>2</sup> | 495 ± 11.9                 |
| Positive Control <sup>3</sup> |                            |
| Positive Control <sup>4</sup> |                            |

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## G06: Ames Summary Data

Test Compound: AF-2

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## Strain: TA98

| Dose (ug/Plate)               | Without S9 | Without S9 | With 30% Rat S9       | With 30% Rat S9 | With 30% Hamster S9   |
|-------------------------------|------------|------------|-----------------------|-----------------|-----------------------|
| Vehicle Control <sup>1</sup>  | 17 ± 1.5   | 18 ± 3.9   | 26 ± 1.2              | 24 ± 2.2        | 38 ± 4.2              |
| 0.0                           | 21 ± 2.3   |            |                       |                 |                       |
| 0.001                         | 20 ± 0.6   | 25 ± 4.6   |                       |                 |                       |
| 0.003                         | 39 ± 2.2   | 44 ± 0.6   |                       |                 |                       |
| 0.006                         |            | 83 ± 4.0   |                       |                 |                       |
| 0.01                          | 88 ± 1.3   | 127 ± 7.1  |                       |                 |                       |
| 0.016                         | 105 ± 6.8  | 203 ± 8.8  |                       |                 |                       |
| 0.03                          |            |            | 38 ± 3.2              |                 | 41 ± 2.7              |
| 0.1                           |            |            | 38 ± 3.8              | 31 ± 4.7        | 59 ± 2.3              |
| 0.16                          |            |            |                       | 42 ± 3.5        |                       |
| 0.3                           |            |            | 64 ± 10.4             | 66 ± 5.8        | 94 ± 5.5              |
| 1.0                           |            |            | 83 ± 13.5             | 98 ± 3.5        | 92 ± 0.7              |
| 1.6                           |            |            |                       | 104 ± 7.2       |                       |
| 3.0                           |            |            | 54 ± 9.6 <sup>s</sup> |                 | 62 ± 4.8 <sup>s</sup> |
| Trial Summary                 | Positive   | Positive   | Positive              | Positive        | Positive              |
| Positive Control <sup>2</sup> |            |            | 94 ± 4.2              | 162 ± 7.7       | 258 ± 6.2             |
| Positive Control <sup>5</sup> | 682 ± 32.8 | 464 ± 26.5 |                       |                 |                       |

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Strain: TA98

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| Dose (ug/Plate)               | With 30% Hamster S9 |
|-------------------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 31 ± 3.9            |
| 0.0                           |                     |
| 0.001                         |                     |
| 0.003                         |                     |
| 0.006                         |                     |
| 0.01                          |                     |
| 0.016                         |                     |
| 0.03                          | 34 ± 1.2            |
| 0.1                           | 40 ± 5.8            |
| 0.16                          |                     |
| 0.3                           | 70 ± 4.7            |
| 1.0                           | 96 ± 3.2            |
| 1.6                           | 88 ± 7.6            |
| 3.0                           |                     |
| Trial Summary                 | Positive            |
| Positive Control <sup>2</sup> | 309 ± 19.1          |
| 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: 1.0 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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