

Experiment Number: 480416

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Anthraquinone

CAS Number: 84-65-1

Date Report Requested: 09/11/2018

Time Report Requested: 16:59:36

**NTP Study Number:**

480416

**Study Result:**

Positive

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## G06: Ames Summary Data

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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>  | 80 ± 0.9   | 79 ± 2.7                | 106 ± 11.6             | 102 ± 4.9               | 89 ± 9.3            |
| 33.0                          | 98 ± 4.3   | 80 ± 2.0                | 117 ± 3.8              | 95 ± 2.9                | 101 ± 2.1           |
| 100.0                         | 106 ± 5.7  | 102 ± 6.9               | 111 ± 1.5              | 126 ± 5.1               | 123 ± 2.6           |
| 333.0                         | 135 ± 14.7 | 145 ± 6.3               | 120 ± 5.3              | 130 ± 2.5               | 136 ± 1.2           |
| 1000.0                        | 310 ± 10.9 | 296 ± 15.6              | 206 ± 8.6              | 184 ± 2.6               | 250 ± 4.7           |
| 2500.0                        | 602 ± 30.7 | 670 ± 23.5 <sup>p</sup> | 391 ± 9.1 <sup>p</sup> | 341 ± 25.7 <sup>p</sup> | 459 ± 19.7          |
| Trial Summary                 | Positive   | Positive                | Positive               | Positive                | Positive            |
| Positive Control <sup>2</sup> | 421 ± 28.0 | 234 ± 14.4              |                        |                         |                     |
| Positive Control <sup>3</sup> |            |                         |                        |                         | 398 ± 14.1          |
| Positive Control <sup>4</sup> |            |                         | 292 ± 3.9              | 268 ± 5.7               |                     |

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Strain: TA100

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| Dose (ug/Plate)               | With 30% Hamster S9     |
|-------------------------------|-------------------------|
| Vehicle Control <sup>1</sup>  | 88 ± 2.8                |
| 33.0                          | 126 ± 5.9               |
| 100.0                         | 127 ± 11.7              |
| 333.0                         | 171 ± 9.3               |
| 1000.0                        | 246 ± 13.6              |
| 2500.0                        | 466 ± 23.2 <sup>p</sup> |
| Trial Summary                 | Positive                |
| Positive Control <sup>2</sup> |                         |
| Positive Control <sup>3</sup> | 330 ± 14.2              |
| Positive Control <sup>4</sup> |                         |

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Test Compound: Anthraquinone

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## Strain: TA98

| Dose (ug/Plate)               | Without S9  | Without S9               | With 30% Rat S9 | With 30% Rat S9         | With 30% Rat S9         |
|-------------------------------|-------------|--------------------------|-----------------|-------------------------|-------------------------|
| Vehicle Control <sup>1</sup>  | 15 ± 1.7    | 15 ± 2.7                 | 17 ± 1.5        | 24 ± 2.2                | 27 ± 5.5                |
| 33.0                          | 43 ± 4.4    | 51 ± 6.1                 | 25 ± 4.1        | 30 ± 4.7                | 39 ± 3.8                |
| 100.0                         | 70 ± 10.5   | 112 ± 1.2                | 31 ± 6.7        | 40 ± 4.1                | 43 ± 13.4               |
| 333.0                         | 225 ± 12.2  | 265 ± 5.7                | 43 ± 0.9        | 57 ± 4.5                | 73 ± 0.9                |
| 1000.0                        | 723 ± 29.2  | 738 ± 8.7                | 122 ± 2.8       | 145 ± 12.7              | 157 ± 11.4              |
| 2500.0                        | 1497 ± 55.9 | 1388 ± 29.4 <sup>p</sup> | 371 ± 4.3       | 421 ± 28.6 <sup>p</sup> | 356 ± 29.6 <sup>p</sup> |
| Trial Summary                 | Positive    | Positive                 | Positive        | Positive                | Positive                |
| Positive Control <sup>5</sup> |             |                          |                 |                         |                         |
| Positive Control <sup>2</sup> |             | 157 ± 7.4                |                 |                         |                         |
| Positive Control <sup>3</sup> |             |                          | 33 ± 1.7        | 101 ± 3.7               | 82 ± 4.2                |
| Positive Control <sup>6</sup> | 162 ± 9.9   |                          |                 |                         |                         |

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**G06: Ames Summary Data**

Test Compound: Anthraquinone

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**Strain: TA98**

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| <b>Dose (ug/Plate)</b>        | <b>With 30% Hamster S9</b> | <b>With 30% Hamster S9</b> |
|-------------------------------|----------------------------|----------------------------|
| Vehicle Control <sup>1</sup>  | 20 ± 2.7                   | 33 ± 3.7                   |
| 33.0                          | 28 ± 1.2                   | 39 ± 4.8                   |
| 100.0                         | 34 ± 3.5                   | 52 ± 1.5                   |
| 333.0                         | 58 ± 4.9                   | 81 ± 3.8                   |
| 1000.0                        | 170 ± 7.1                  | 187 ± 22.4                 |
| 2500.0                        | 401 ± 8.7                  | 492 ± 40.4 <sup>p</sup>    |
| Trial Summary                 | Positive                   | Positive                   |
| Positive Control <sup>5</sup> | 82 ± 5.5                   |                            |
| Positive Control <sup>2</sup> |                            |                            |
| Positive Control <sup>3</sup> |                            | 79 ± 5.2                   |
| Positive Control <sup>6</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: 0.5 ug/Plate Sodium Azide
- 3: 1.0 ug/Plate 2-Aminoanthracene
- 4: 2.0 ug/Plate 2-Aminoanthracene
- 5: 0.4 ug/Plate 2-Aminoanthracene
- 6: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine
- p: Precipitate

\*\* END OF REPORT \*\*