

Experiment Number: 267151

Test Type: **Genetic Toxicology - Bacterial  
Mutagenicity**

**G06: Ames Summary Data**

Test Compound: **2,3-Dichloroquinoxaline**

CAS Number: **2213-63-0**

Date Report Requested: **09/11/2018**

Time Report Requested: **08:31:50**

**NTP Study Number:**

267151

**Study Result:**

Negative

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Test Compound: 2,3-Dichloroquinoxaline

CAS Number: 2213-63-0

Date Report Requested: 09/11/2018

Time Report Requested: 08:31:50

## Strain: TA100

| Dose (ug/Plate)               | Without S9            | Without S9              | With 10% Rat S9       | With 10% Rat S9        | With 10% Hamster S9     |
|-------------------------------|-----------------------|-------------------------|-----------------------|------------------------|-------------------------|
| Vehicle Control <sup>1</sup>  | 99 ± 5.7              | 102 ± 8.2               | 125 ± 13.6            | 141 ± 7.1              | 123 ± 6.8               |
| 100.0                         | 128 ± 10.1            | 165 ± 4.9               | 101 ± 0.6             | 125 ± 2.2              | 137 ± 4.7               |
| 333.0                         | 113 ± 9.5             | 137 ± 17.3              | 99 ± 8.5              | 117 ± 2.7              | 136 ± 1.3               |
| 1000.0                        | 81 ± 6.0              | 169 ± 8.8               | 90 ± 2.1              | 114 ± 8.8              | 99 ± 1.9                |
| 3333.0                        | 62 ± 6.7 <sup>P</sup> | 168 ± 11.3 <sup>P</sup> | 89 ± 8.4 <sup>P</sup> | 101 ± 7.5 <sup>P</sup> | 115 ± 11.6 <sup>P</sup> |
| 10000.0                       | 73 ± 7.2 <sup>P</sup> | 157 ± 10.7 <sup>P</sup> | 76 ± 1.8 <sup>P</sup> | 112 ± 7.1 <sup>P</sup> | 88 ± 7.6 <sup>P</sup>   |
| Trial Summary                 | Negative              | Equivocal               | Negative              | Negative               | Negative                |
| Positive Control <sup>2</sup> | 433 ± 17.5            | 422 ± 16.8              |                       |                        |                         |
| Positive Control <sup>3</sup> |                       |                         | 533 ± 44.5            | 445 ± 37.5             | 1617 ± 71.3             |

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Strain: TA100

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| Dose (ug/Plate)               | With 10% Hamster S9    |
|-------------------------------|------------------------|
| Vehicle Control <sup>1</sup>  | 113 ± 9.2              |
| 100.0                         | 118 ± 6.4              |
| 333.0                         | 134 ± 1.5              |
| 1000.0                        | 104 ± 12.2             |
| 3333.0                        | 105 ± 3.1 <sup>P</sup> |
| 10000.0                       | 94 ± 3.6 <sup>P</sup>  |
| Trial Summary                 | Negative               |
| Positive Control <sup>2</sup> |                        |
| Positive Control <sup>3</sup> | 735 ± 17.1             |

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## Strain: TA1535

| Dose (ug/Plate)               | Without S9            | Without S9            | With 10% Rat S9       | With 10% Rat S9       | With 10% Hamster S9   |
|-------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Vehicle Control <sup>1</sup>  | 23 ± 2.8              | 27 ± 3.2              | 7 ± 0.3               | 12 ± 3.3              | 10 ± 3.3              |
| 100.0                         | 36 ± 2.3              | 26 ± 3.5              | 9 ± 1.2               | 14 ± 0.3              | 12 ± 1.9              |
| 333.0                         | 36 ± 3.0              | 23 ± 2.3              | 11 ± 2.4              | 9 ± 1.7               | 10 ± 4.0              |
| 1000.0                        | 33 ± 3.2              | 23 ± 5.8              | 9 ± 2.4               | 13 ± 0.9              | 14 ± 1.2              |
| 3333.0                        | 37 ± 2.6 <sup>p</sup> | 26 ± 3.5 <sup>p</sup> | 7 ± 1.5 <sup>p</sup>  | 13 ± 0.9 <sup>p</sup> | 12 ± 3.0 <sup>p</sup> |
| 10000.0                       | 25 ± 3.3 <sup>p</sup> | 21 ± 6.0 <sup>p</sup> | 10 ± 2.1 <sup>p</sup> | 13 ± 1.9 <sup>p</sup> | 10 ± 2.4 <sup>p</sup> |
| Trial Summary                 | Negative              | Negative              | Negative              | Negative              | Negative              |
| Positive Control <sup>2</sup> | 488 ± 6.0             | 274 ± 13.1            |                       |                       |                       |
| Positive Control <sup>4</sup> |                       |                       | 208 ± 5.8             | 157 ± 13.0            | 458 ± 12.6            |

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**Strain: TA1535**

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| <b>Dose (ug/Plate)</b>        | <b>With 10% Hamster S9</b> |
|-------------------------------|----------------------------|
| Vehicle Control <sup>1</sup>  | 8 ± 1.9                    |
| 100.0                         | 17 ± 0.9                   |
| 333.0                         | 11 ± 1.2                   |
| 1000.0                        | 16 ± 4.9                   |
| 3333.0                        | 14 ± 4.4 <sup>p</sup>      |
| 10000.0                       | 14 ± 2.9 <sup>p</sup>      |
| Trial Summary                 | Negative                   |
| Positive Control <sup>2</sup> |                            |
| Positive Control <sup>4</sup> | 379 ± 23.6                 |

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## Strain: TA1537

| Dose (ug/Plate)               | Without S9           | Without S9           | With 10% Rat S9      | With 10% Rat S9      | With 10% Hamster S9  |
|-------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Vehicle Control <sup>1</sup>  | 6 ± 1.2              | 10 ± 1.5             | 4 ± 0.9              | 8 ± 0.9              | 5 ± 1.0              |
| 100.0                         | 5 ± 1.2              | 6 ± 1.2              | 6 ± 0.9              | 13 ± 2.6             | 6 ± 1.2              |
| 333.0                         | 4 ± 0.9              | 7 ± 0.7              | 5 ± 1.0              | 10 ± 2.7             | 8 ± 0.9              |
| 1000.0                        | 2 ± 1.0              | 5 ± 0.9              | 3 ± 1.2              | 8 ± 0.7              | 8 ± 1.9              |
| 3333.0                        | 2 ± 0.9 <sup>p</sup> | 6 ± 1.5 <sup>p</sup> | 3 ± 0.9 <sup>p</sup> | 7 ± 0.9 <sup>p</sup> | 5 ± 1.2 <sup>p</sup> |
| 10000.0                       | 1 ± 0.3 <sup>p</sup> | 9 ± 1.3 <sup>p</sup> | 4 ± 0.7 <sup>p</sup> | 7 ± 0.9 <sup>p</sup> | 4 ± 0.6 <sup>p</sup> |
| Trial Summary                 | Negative             | Negative             | Negative             | Negative             | Negative             |
| Positive Control <sup>4</sup> |                      |                      | 168 ± 4.7            | 182 ± 3.0            | 328 ± 6.2            |
| Positive Control <sup>5</sup> | 161 ± 6.7            | 261 ± 19.1           |                      |                      |                      |

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**Strain: TA1537**

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| <b>Dose (ug/Plate)</b>        | <b>With 10% Hamster S9</b> |
|-------------------------------|----------------------------|
| Vehicle Control <sup>1</sup>  | 9 ± 1.3                    |
| 100.0                         | 13 ± 1.9                   |
| 333.0                         | 14 ± 0.6                   |
| 1000.0                        | 8 ± 0.9                    |
| 3333.0                        | 9 ± 1.8 <sup>P</sup>       |
| 10000.0                       | 9 ± 1.7 <sup>P</sup>       |
| Trial Summary                 | Negative                   |
| Positive Control <sup>4</sup> | 343 ± 21.8                 |
| Positive Control <sup>5</sup> |                            |

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Test Compound: 2,3-Dichloroquinoxaline

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## Strain: TA98

| Dose (ug/Plate)               | Without S9           | Without S9            | With 10% Rat S9       | With 10% Rat S9       | With 10% Hamster S9   |
|-------------------------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Vehicle Control <sup>1</sup>  | 16 ± 1.8             | 18 ± 0.9              | 32 ± 0.6              | 44 ± 5.3              | 31 ± 3.6              |
| 100.0                         | 14 ± 2.3             | 19 ± 3.5              | 25 ± 2.6              | 36 ± 3.2              | 29 ± 1.0              |
| 333.0                         | 15 ± 0.9             | 16 ± 1.2              | 26 ± 3.2              | 28 ± 5.2              | 24 ± 2.9              |
| 1000.0                        | 9 ± 1.2              | 17 ± 3.5              | 15 ± 2.4              | 25 ± 0.6              | 15 ± 0.6              |
| 3333.0                        | 6 ± 0.9 <sup>p</sup> | 16 ± 2.1 <sup>p</sup> | 14 ± 2.5 <sup>p</sup> | 20 ± 3.0 <sup>p</sup> | 17 ± 2.7 <sup>p</sup> |
| 10000.0                       | 6 ± 1.5 <sup>p</sup> | 20 ± 1.2 <sup>p</sup> | 13 ± 0.6 <sup>p</sup> | 33 ± 2.1 <sup>p</sup> | 6 ± 0.3 <sup>p</sup>  |
| Trial Summary                 | Negative             | Negative              | Negative              | Negative              | Negative              |
| Positive Control <sup>3</sup> |                      |                       | 535 ± 16.8            | 300 ± 8.0             | 1438 ± 97.8           |
| Positive Control <sup>6</sup> | 908 ± 46.9           | 871 ± 26.2            |                       |                       |                       |



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**Strain: TA98**

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| <b>Dose (ug/Plate)</b>        | <b>With 10% Hamster S9</b> |
|-------------------------------|----------------------------|
| Vehicle Control <sup>1</sup>  | 18 ± 0.6                   |
| 100.0                         | 43 ± 3.5                   |
| 333.0                         | 37 ± 5.9                   |
| 1000.0                        | 18 ± 0.9                   |
| 3333.0                        | 30 ± 3.8 <sup>p</sup>      |
| 10000.0                       | 25 ± 2.3 <sup>p</sup>      |
| Trial Summary                 | Equivocal                  |
| Positive Control <sup>3</sup> | 631 ± 38.6                 |
| 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: 1.0 ug/Plate Sodium Azide
- 3: 1.0 ug/Plate 2-Aminoanthracene
- 4: 2.5 ug/Plate 2-Aminoanthracene
- 5: 50.0 ug/Plate 9-Aminoacridine
- 6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine
- p: Precipitate

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