

Experiment Number: 463949

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Oxytetracycline hydrochloride

CAS Number: 2058-46-0

Date Report Requested: 09/11/2018

Time Report Requested: 10:18:08

**NTP Study Number:**

463949

**Study Result:**

Negative

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## G06: Ames Summary Data

Test Compound: Oxytetracycline hydrochloride

CAS Number: 2058-46-0

Date Report Requested: 09/11/2018

Time Report Requested: 10:18:08

## Strain: TA100

| Dose (ug/Plate)               | Without S9  | Without S9  | Without S9  | With 10% Rat S9 | With 10% Rat S9 |
|-------------------------------|-------------|-------------|-------------|-----------------|-----------------|
| Vehicle Control <sup>1</sup>  | 145 ± 9.0   | 138 ± 3.7   | 106 ± 7.2   | 148 ± 9.7       | 133 ± 2.5       |
| 0.003                         |             |             | 142 ± 8.5   |                 |                 |
| 0.01                          |             |             | 122 ± 10.7  |                 |                 |
| 0.03                          | 145 ± 6.4   | 132 ± 7.5   | 102 ± 13.1  | 151 ± 2.5       | 118 ± 7.9       |
| 0.1                           | 139 ± 4.9   | 120 ± 6.6   | 113 ± 6.8   | 133 ± 5.4       | 102 ± 3.5       |
| 0.3                           | 136 ± 5.8   | 60 ± 0.6    | 105 ± 4.0   | 150 ± 13.3      | 68 ± 8.4        |
| 1.0                           | 121 ± 1.8   | 3 ± 0.6     | 61 ± 1.7    | 119 ± 10.5      | 7 ± 1.0         |
| 2.0                           | 54 ± 5.4    | 0 ± 0.0     |             | 74 ± 7.3        | 0 ± 0.0         |
| Trial Summary                 | Negative    | Negative    | Negative    | Negative        | Negative        |
| Positive Control <sup>2</sup> |             |             |             |                 |                 |
| Positive Control <sup>3</sup> |             |             |             | 844 ± 25.3      | 1113 ± 73.5     |
| Positive Control <sup>4</sup> | 2508 ± 35.6 | 2931 ± 48.5 | 1223 ± 57.8 |                 |                 |

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## Strain: TA100

| Dose (ug/Plate)               | With 10% Rat S9 | With 10% Hamster S9 | With 10% Hamster S9 | With 10% Hamster S9 |
|-------------------------------|-----------------|---------------------|---------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 129 ± 0.6       | 128 ± 5.2           | 100 ± 4.6           | 122 ± 7.8           |
| 0.003                         | 128 ± 2.5       |                     |                     | 99 ± 3.3            |
| 0.01                          | 130 ± 8.4       |                     |                     | 120 ± 9.7           |
| 0.03                          | 124 ± 5.1       | 129 ± 12.1          | 103 ± 1.5           | 134 ± 2.1           |
| 0.1                           | 103 ± 10.5      | 135 ± 11.0          | 107 ± 0.3           | 134 ± 2.7           |
| 0.3                           | 128 ± 11.0      | 139 ± 7.6           | 69 ± 3.2            | 122 ± 7.2           |
| 1.0                           | 78 ± 4.4        | 81 ± 2.2            | 4 ± 0.3             | 74 ± 1.7            |
| 2.0                           |                 | 53 ± 2.2            | 0 ± 0.0             |                     |
| Trial Summary                 | Negative        | Negative            | Negative            | Negative            |
| Positive Control <sup>2</sup> |                 | 1919 ± 47.2         | 2511 ± 70.5         | 2063 ± 61.6         |
| Positive Control <sup>3</sup> | 916 ± 31.8      |                     |                     |                     |
| Positive Control <sup>4</sup> |                 |                     |                     |                     |

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## G06: Ames Summary Data

Test Compound: Oxytetracycline hydrochloride

CAS Number: 2058-46-0

Date Report Requested: 09/11/2018

Time Report Requested: 10:18:08

## Strain: TA1535

| Dose (ug/Plate)               | Without S9 | Without S9  | Without S9  | With 10% Rat S9 | With 10% Rat S9      |
|-------------------------------|------------|-------------|-------------|-----------------|----------------------|
| Vehicle Control <sup>1</sup>  | 35 ± 5.9   | 31 ± 3.1    | 17 ± 3.5    | 14 ± 1.5        | 8 ± 1.2              |
| 0.003                         |            |             | 15 ± 2.1    |                 |                      |
| 0.01                          |            |             | 15 ± 2.6    |                 |                      |
| 0.03                          | 30 ± 5.3   | 29 ± 5.2    | 15 ± 2.3    | 12 ± 2.6        | 14 ± 3.2             |
| 0.1                           | 30 ± 4.5   | 27 ± 2.2    | 15 ± 2.8    | 10 ± 1.2        | 12 ± 3.0             |
| 0.3                           | 27 ± 4.4   | 23 ± 4.1    | 13 ± 1.5    | 12 ± 3.3        | 7 ± 2.6              |
| 1.0                           | 36 ± 0.6   | 4 ± 3.3     | 14 ± 3.5    | 10 ± 3.7        | 0 ± 0.3              |
| 2.0                           | 24 ± 3.0   | 0 ± 0.0     |             | 5 ± 1.5         | 0 ± 0.0 <sup>s</sup> |
| Trial Summary                 | Negative   | Negative    | Negative    | Negative        | Negative             |
| Positive Control <sup>2</sup> |            |             |             |                 |                      |
| Positive Control <sup>3</sup> |            |             |             | 52 ± 4.0        | 70 ± 4.0             |
| Positive Control <sup>4</sup> | 1676 ± 2.6 | 2165 ± 78.8 | 1092 ± 30.0 |                 |                      |

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**Strain: TA1535**

| Dose (ug/Plate)               | With 10% Rat S9 | With 10% Hamster S9 | With 10% Hamster S9 | With 10% Hamster S9 |
|-------------------------------|-----------------|---------------------|---------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 10 ± 2.8        | 11 ± 1.5            | 11 ± 0.7            | 12 ± 1.8            |
| 0.003                         | 12 ± 3.9        |                     |                     | 10 ± 3.1            |
| 0.01                          | 8 ± 1.5         |                     |                     | 7 ± 1.7             |
| 0.03                          | 12 ± 0.6        | 10 ± 2.6            | 9 ± 0.9             | 10 ± 1.7            |
| 0.1                           | 10 ± 1.2        | 10 ± 2.5            | 6 ± 1.2             | 9 ± 0.9             |
| 0.3                           | 9 ± 0.7         | 10 ± 3.2            | 4 ± 1.2             | 7 ± 0.7             |
| 1.0                           | 7 ± 0.9         | 9 ± 1.7             | 1 ± 0.7             | 8 ± 0.9             |
| 2.0                           |                 | 6 ± 0.6             | 0 ± 0.0             |                     |
| Trial Summary                 | Negative        | Negative            | Negative            | Negative            |
| Positive Control <sup>2</sup> |                 | 139 ± 4.3           | 171 ± 7.4           | 135 ± 2.3           |
| Positive Control <sup>3</sup> | 56 ± 3.5        |                     |                     |                     |
| Positive Control <sup>4</sup> |                 |                     |                     |                     |

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## G06: Ames Summary Data

Test Compound: Oxytetracycline hydrochloride  
CAS Number: 2058-46-0

Date Report Requested: 09/11/2018

Time Report Requested: 10:18:08

## Strain: TA1537

| Dose (ug/Plate)               | Without S9 | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9      |
|-------------------------------|------------|------------|------------|-----------------|----------------------|
| Vehicle Control <sup>1</sup>  | 7 ± 2.3    | 5 ± 0.6    | 5 ± 1.0    | 7 ± 2.6         | 6 ± 0.6              |
| 0.003                         |            |            | 5 ± 1.5    |                 |                      |
| 0.01                          |            |            | 7 ± 1.0    |                 |                      |
| 0.03                          | 10 ± 1.5   | 7 ± 1.5    | 6 ± 0.9    | 12 ± 2.1        | 5 ± 0.7              |
| 0.1                           | 7 ± 1.5    | 6 ± 1.2    | 3 ± 0.9    | 12 ± 1.5        | 6 ± 0.7              |
| 0.3                           | 9 ± 1.0    | 5 ± 2.5    | 7 ± 1.2    | 10 ± 0.7        | 5 ± 2.2              |
| 1.0                           | 11 ± 0.3   | 1 ± 0.7    | 4 ± 0.6    | 9 ± 0.9         | 1 ± 0.3              |
| 2.0                           | 8 ± 1.2    | 0 ± 0.0    |            | 5 ± 1.0         | 0 ± 0.0 <sup>s</sup> |
| Trial Summary                 | Negative   | Negative   | Negative   | Negative        | Negative             |
| Positive Control <sup>2</sup> |            |            |            |                 |                      |
| Positive Control <sup>3</sup> |            |            |            | 53 ± 6.5        | 73 ± 0.3             |
| Positive Control <sup>5</sup> | 293 ± 15.0 | 203 ± 70.7 | 467 ± 27.4 |                 |                      |

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**Strain: TA1537**

| Dose (ug/Plate)               | With 10% Rat S9 | With 10% Hamster S9 | With 10% Hamster S9  | With 10% Hamster S9 |
|-------------------------------|-----------------|---------------------|----------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 6 ± 0.9         | 12 ± 2.1            | 8 ± 0.7              | 12 ± 3.0            |
| 0.003                         | 6 ± 1.2         |                     |                      | 6 ± 1.8             |
| 0.01                          | 7 ± 2.2         |                     |                      | 8 ± 0.6             |
| 0.03                          | 6 ± 0.7         | 10 ± 0.6            | 8 ± 1.8              | 8 ± 2.3             |
| 0.1                           | 4 ± 0.0         | 11 ± 1.5            | 8 ± 1.7              | 4 ± 0.9             |
| 0.3                           | 6 ± 1.2         | 9 ± 2.1             | 6 ± 2.7              | 6 ± 0.7             |
| 1.0                           | 7 ± 1.2         | 4 ± 1.0             | 0 ± 0.3              | 7 ± 0.9             |
| 2.0                           |                 | 4 ± 0.6             | 0 ± 0.0 <sup>s</sup> |                     |
| Trial Summary                 | Negative        | Negative            | Negative             | Negative            |
| Positive Control <sup>2</sup> |                 | 166 ± 18.1          | 208 ± 13.2           | 295 ± 6.1           |
| Positive Control <sup>3</sup> | 56 ± 6.5        |                     |                      |                     |
| Positive Control <sup>5</sup> |                 |                     |                      |                     |

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## Strain: TA98

| Dose (ug/Plate)               | Without S9  | Without S9  | Without S9  | With 10% Rat S9 | With 10% Rat S9 |
|-------------------------------|-------------|-------------|-------------|-----------------|-----------------|
| Vehicle Control <sup>1</sup>  | 23 ± 3.0    | 28 ± 2.3    | 15 ± 2.6    | 31 ± 1.7        | 37 ± 2.4        |
| 0.003                         |             |             | 14 ± 3.1    |                 |                 |
| 0.01                          |             |             | 15 ± 1.5    |                 |                 |
| 0.03                          | 17 ± 1.0    | 23 ± 3.5    | 15 ± 1.5    | 29 ± 2.1        | 33 ± 3.5        |
| 0.1                           | 26 ± 1.9    | 25 ± 3.2    | 14 ± 2.2    | 27 ± 0.9        | 32 ± 1.9        |
| 0.3                           | 20 ± 1.8    | 21 ± 0.9    | 10 ± 3.1    | 31 ± 4.9        | 22 ± 2.5        |
| 1.0                           | 17 ± 4.0    | 8 ± 1.0     | 10 ± 1.5    | 20 ± 4.4        | 6 ± 0.6         |
| 2.0                           | 13 ± 2.3    | 0 ± 0.0     |             | 12 ± 3.5        | 1 ± 1.0         |
| Trial Summary                 | Negative    | Negative    | Negative    | Negative        | Negative        |
| Positive Control <sup>2</sup> |             |             |             |                 |                 |
| Positive Control <sup>3</sup> |             |             |             | 484 ± 16.0      | 1033 ± 29.6     |
| Positive Control <sup>6</sup> | 1802 ± 22.5 | 2325 ± 54.2 | 1727 ± 14.7 |                 |                 |



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Time Report Requested: 10:18:08

## Strain: TA98

| Dose (ug/Plate)               | With 10% Rat S9 | With 10% Hamster S9 | With 10% Hamster S9 | With 10% Hamster S9 |
|-------------------------------|-----------------|---------------------|---------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 28 ± 0.7        | 24 ± 0.3            | 34 ± 1.5            | 20 ± 3.5            |
| 0.003                         | 25 ± 1.5        |                     |                     | 18 ± 2.2            |
| 0.01                          | 20 ± 1.8        |                     |                     | 26 ± 1.5            |
| 0.03                          | 22 ± 1.7        | 35 ± 2.1            | 37 ± 3.5            | 27 ± 6.1            |
| 0.1                           | 21 ± 5.5        | 30 ± 0.6            | 33 ± 0.0            | 25 ± 6.4            |
| 0.3                           | 18 ± 3.8        | 28 ± 3.5            | 20 ± 2.9            | 21 ± 3.2            |
| 1.0                           | 14 ± 3.2        | 27 ± 2.3            | 3 ± 1.7             | 17 ± 4.4            |
| 2.0                           |                 | 13 ± 0.9            | 0 ± 0.3             |                     |
| Trial Summary                 | Negative        | Negative            | Negative            | Negative            |
| Positive Control <sup>2</sup> |                 | 1453 ± 45.4         | 2131 ± 97.2         | 2156 ± 34.5         |
| Positive Control <sup>3</sup> | 617 ± 9.8       |                     |                     |                     |
| 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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

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

s: Slight Toxicity

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