

Experiment Number: 982821

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 2,6-Toluenediamine dihydrochloride (2,6-diaminotoluene dihydrochloride)

CAS Number: 15481-70-6

Date Report Requested: 09/18/2018

Time Report Requested: 06:56:53

**NTP Study Number:**

982821

**Study Result:**

Positive

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CAS Number: 15481-70-6

## Strain: TA100

| Dose (ug/Plate)               | Without S9 | With 10% Rat S9        | With 10% Rat S9 | With 10% Hamster S9     | With 10% Hamster S9 |
|-------------------------------|------------|------------------------|-----------------|-------------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 121 ± 9.4  | 142 ± 5.4              | 152 ± 4.1       | 99 ± 7.3                | 137 ± 4.1           |
| 10.0                          |            |                        |                 |                         | 184 ± 5.8           |
| 33.0                          |            |                        | 209 ± 17.3      |                         | 289 ± 8.7           |
| 100.0                         | 124 ± 13.4 | 255 ± 9.5              | 282 ± 10.4      | 372 ± 7.5               | 398 ± 27.9          |
| 333.0                         | 105 ± 7.2  | 345 ± 20.5             | 412 ± 48.4      | 619 ± 38.4              | 710 ± 14.3          |
| 666.0                         |            |                        |                 |                         | 806 ± 14.8          |
| 1000.0                        | 110 ± 7.8  | 461 ± 20.3             | 604 ± 17.3      | 1140 ± 105.2            |                     |
| 3333.0                        | 118 ± 3.8  | 610 ± 24.3             | 790 ± 27.5      | 1805 ± 85.4             |                     |
| 10000.0                       | 94 ± 48.4  | 131 ± 3.8 <sup>x</sup> |                 | 103 ± 14.8 <sup>x</sup> |                     |
| Trial Summary                 | Negative   | Positive               | Positive        | Positive                | Positive            |
| Positive Control <sup>2</sup> |            |                        |                 | 806 ± 63.9              | 872 ± 17.2          |
| Positive Control <sup>3</sup> |            | 512 ± 8.7              | 599 ± 85.0      |                         |                     |
| Positive Control <sup>4</sup> | 422 ± 7.9  |                        |                 |                         |                     |

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Time Report Requested: 06:56:53

CAS Number: 15481-70-6

## Strain: TA1535

| Dose (ug/Plate)               | Without S9 | With 5% Rat S9        | With 10% Rat S9       | With 10% Rat S9       | With 10% Rat S9       |
|-------------------------------|------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Vehicle Control <sup>1</sup>  | 17 ± 2.1   | 10 ± 2.5              | 8 ± 1.5               | 11 ± 1.9              | 14 ± 3.1              |
| 100.0                         | 16 ± 4.0   |                       | 9 ± 0.7               |                       |                       |
| 333.0                         | 17 ± 1.7   | 11 ± 3.1              | 13 ± 3.6              | 10 ± 1.5              | 11 ± 1.5              |
| 1000.0                        | 16 ± 3.0   | 12 ± 1.9              | 13 ± 2.0              | 13 ± 2.3              | 11 ± 0.0              |
| 1666.0                        |            |                       |                       |                       |                       |
| 3333.0                        | 20 ± 1.9   | 12 ± 3.1              | 15 ± 0.7              | 22 ± 2.7              | 17 ± 1.0              |
| 6666.0                        |            | 7 ± 3.4               |                       | 9 ± 1.7               | 9 ± 3.2               |
| 10000.0                       | 19 ± 3.8   | 12 ± 1.8 <sup>s</sup> | 24 ± 1.5 <sup>x</sup> | 31 ± 1.2 <sup>x</sup> | 26 ± 1.2 <sup>x</sup> |
| Trial Summary                 | Negative   | Negative              | Equivocal             | Equivocal             | Equivocal             |
| Positive Control <sup>3</sup> |            |                       |                       |                       |                       |
| Positive Control <sup>4</sup> | 350 ± 25.8 |                       |                       |                       |                       |
| Positive Control <sup>5</sup> |            | 252 ± 21.4            | 173 ± 16.7            | 313 ± 12.9            | 177 ± 7.6             |

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## G06: Ames Summary Data

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Test Type: Genetic Toxicology - Bacterial  
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Test Compound: 2,6-Toluenediamine dihydrochloride (2,6-diaminotoluene dihydrochloride)

Time Report Requested: 06:56:53

CAS Number: 15481-70-6

## Strain: TA1535

| Dose (ug/Plate)               | With 10% Rat S9       | With 30% Rat S9       | With 10% Hamster S9  | With 10% Hamster S9 |
|-------------------------------|-----------------------|-----------------------|----------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 9 ± 0.6               | 8 ± 1.2               | 11 ± 0.3             | 15 ± 1.2            |
| 100.0                         |                       |                       | 9 ± 3.0              |                     |
| 333.0                         | 8 ± 1.8               | 9 ± 2.7               | 12 ± 2.0             | 17 ± 0.9            |
| 1000.0                        | 8 ± 1.2               | 11 ± 0.6              | 21 ± 3.9             | 20 ± 2.3            |
| 1666.0                        |                       |                       |                      | 38 ± 0.7            |
| 3333.0                        | 13 ± 0.9              | 7 ± 2.0               | 43 ± 6.7             | 57 ± 6.0            |
| 6666.0                        | 8 ± 1.9               | 6 ± 0.7               |                      | 13 ± 3.8            |
| 10000.0                       | 12 ± 2.0 <sup>x</sup> | 10 ± 0.3 <sup>x</sup> | 9 ± 1.2 <sup>x</sup> |                     |
| Trial Summary                 | Negative              | Negative              | Positive             | Positive            |
| Positive Control <sup>3</sup> |                       |                       | 320 ± 19.4           | 389 ± 7.6           |
| Positive Control <sup>4</sup> |                       |                       |                      |                     |
| Positive Control <sup>5</sup> | 168 ± 10.3            | 85 ± 3.7              |                      |                     |

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Test Compound: 2,6-Toluenediamine dihydrochloride (2,6-diaminotoluene dihydrochloride)

Time Report Requested: 06:56:53

CAS Number: 15481-70-6

## Strain: TA97

| Dose (ug/Plate)               | Without S9 | With 10% Rat S9        | With 10% Rat S9 | With 10% Hamster S9     | With 10% Hamster S9 |
|-------------------------------|------------|------------------------|-----------------|-------------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 134 ± 5.8  | 192 ± 6.7              | 174 ± 9.6       | 199 ± 0.9               | 178 ± 6.9           |
| 33.0                          |            |                        | 217 ± 15.9      |                         | 274 ± 17.5          |
| 100.0                         | 179 ± 11.2 | 225 ± 21.7             | 226 ± 23.9      | 257 ± 24.0              | 325 ± 6.2           |
| 333.0                         | 162 ± 13.9 | 260 ± 14.5             | 233 ± 21.9      | 306 ± 8.7               | 460 ± 36.4          |
| 1000.0                        | 156 ± 11.9 | 271 ± 16.5             | 244 ± 28.0      | 490 ± 53.3              | 619 ± 56.8          |
| 3333.0                        | 158 ± 21.5 | 355 ± 22.3             | 343 ± 26.2      | 642 ± 94.0              | 875 ± 75.0          |
| 10000.0                       | 104 ± 9.8  | 190 ± 3.8 <sup>x</sup> |                 | 141 ± 17.1 <sup>x</sup> |                     |
| Trial Summary                 | Negative   | Weakly Positive        | Positive        | Positive                | Positive            |
| Positive Control <sup>2</sup> |            |                        |                 | 433 ± 28.1              | 649 ± 18.2          |
| Positive Control <sup>3</sup> |            | 371 ± 1.0              | 493 ± 5.8       |                         |                     |
| Positive Control <sup>6</sup> | 495 ± 43.0 |                        |                 |                         |                     |

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## G06: Ames Summary Data

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Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

Test Compound: 2,6-Toluenediamine dihydrochloride (2,6-diaminotoluene dihydrochloride)

Time Report Requested: 06:56:53

CAS Number: 15481-70-6

## Strain: TA98

| Dose (ug/Plate)               | Without S9 | With 10% Rat S9       | With 10% Rat S9 | With 10% Hamster S9   | With 10% Hamster S9 |
|-------------------------------|------------|-----------------------|-----------------|-----------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 27 ± 1.2   | 32 ± 2.5              | 26 ± 2.3        | 33 ± 2.2              | 39 ± 4.2            |
| 10.0                          |            |                       |                 |                       | 56 ± 2.4            |
| 33.0                          |            |                       | 67 ± 3.5        |                       | 106 ± 14.2          |
| 100.0                         | 21 ± 0.3   | 81 ± 4.3              | 68 ± 3.4        | 210 ± 12.1            | 202 ± 3.5           |
| 333.0                         | 20 ± 2.7   | 153 ± 7.0             | 162 ± 4.4       | 461 ± 76.0            | 421 ± 33.3          |
| 666.0                         |            |                       |                 |                       | 578 ± 6.8           |
| 1000.0                        | 22 ± 3.6   | 287 ± 1.5             | 222 ± 7.6       | 771 ± 51.3            |                     |
| 3333.0                        | 25 ± 3.5   | 612 ± 18.1            | 588 ± 10.5      | 1399 ± 100.0          |                     |
| 10000.0                       | 26 ± 0.6   | 27 ± 2.8 <sup>x</sup> |                 | 21 ± 4.5 <sup>x</sup> |                     |
| Trial Summary                 | Negative   | Positive              | Positive        | Positive              | Positive            |
| Positive Control <sup>2</sup> |            |                       |                 | 691 ± 15.4            | 587 ± 24.0          |
| Positive Control <sup>3</sup> |            | 345 ± 7.1             | 411 ± 52.5      |                       |                     |
| Positive Control <sup>7</sup> | 588 ± 28.8 |                       |                 |                       |                     |

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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: Water

2: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

x: Slight Toxicity and Precipitate

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