

Experiment Number: A05266

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

**G06: Ames Summary Data**

Test Compound: **Phenoxy acetic acid**

CAS Number: **122-59-8**

Date Report Requested: **09/15/2018**

Time Report Requested: **15:38:49**

**NTP Study Number:**

A05266

**Study Result:**

Negative

Experiment Number: A05266

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Mutagenicity

## G06: Ames Summary Data

Test Compound: Phenoxy acetic acid

CAS Number: 122-59-8

Date Report Requested: 09/15/2018

Time Report Requested: 15:38:49

## Strain: TA100

| Dose (ug/Plate)               | Without S9            | Without S9 | With 10% Rat S9      | With 30% Rat S9        | With 10% Hamster S9  |
|-------------------------------|-----------------------|------------|----------------------|------------------------|----------------------|
| Vehicle Control <sup>1</sup>  | 85 ± 3.1              | 94 ± 5.0   | 101 ± 4.1            | 118 ± 8.3              | 91 ± 5.1             |
| 100.0                         | 92 ± 0.6              | 90 ± 6.9   | 109 ± 9.9            | 100 ± 3.0              | 98 ± 11.8            |
| 333.0                         | 82 ± 5.8              | 98 ± 2.4   | 102 ± 5.8            | 114 ± 12.9             | 104 ± 11.9           |
| 1000.0                        | 90 ± 8.1              | 78 ± 4.1   | 106 ± 4.1            | 108 ± 8.7              | 106 ± 4.4            |
| 3333.0                        | 83 ± 9.0              | 92 ± 1.8   | 99 ± 8.4             | 91 ± 5.4               | 105 ± 1.3            |
| 10000.0                       | 53 ± 6.5 <sup>s</sup> | Toxic      | 0 ± 0.0 <sup>x</sup> | 74 ± 14.5 <sup>x</sup> | 0 ± 0.0 <sup>x</sup> |
| Trial Summary                 | Negative              | Negative   | Negative             | Negative               | Negative             |
| Positive Control <sup>2</sup> |                       |            |                      |                        | 863 ± 61.2           |
| Positive Control <sup>3</sup> |                       |            | 726 ± 21.2           |                        |                      |
| Positive Control <sup>4</sup> | 769 ± 14.1            | 851 ± 31.3 |                      |                        |                      |
| Positive Control <sup>5</sup> |                       |            |                      | 436 ± 31.8             |                      |

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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>  | 109 ± 3.5                  |
| 100.0                         | 112 ± 6.4                  |
| 333.0                         | 104 ± 6.1                  |
| 1000.0                        | 102 ± 1.0                  |
| 3333.0                        | 87 ± 0.7                   |
| 10000.0                       | 74 ± 13.8 <sup>x</sup>     |
| Trial Summary                 | Negative                   |
| Positive Control <sup>2</sup> |                            |
| Positive Control <sup>3</sup> | 791 ± 2.3                  |
| Positive Control <sup>4</sup> |                            |
| Positive Control <sup>5</sup> |                            |

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## G06: Ames Summary Data

Test Compound: Phenoxy acetic acid

CAS Number: 122-59-8

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## Strain: TA1535

| Dose (ug/Plate)               | Without S9 | Without S9 | With 10% Rat S9      | With 30% Rat S9      | With 10% Hamster S9  |
|-------------------------------|------------|------------|----------------------|----------------------|----------------------|
| Vehicle Control <sup>1</sup>  | 7 ± 0.7    | 8 ± 1.7    | 8 ± 1.2              | 10 ± 1.2             | 9 ± 1.2              |
| 100.0                         | 9 ± 0.9    | 5 ± 1.2    | 8 ± 1.2              | 11 ± 1.2             | 6 ± 0.7              |
| 333.0                         | 10 ± 0.9   | 6 ± 2.0    | 8 ± 1.2              | 9 ± 1.2              | 6 ± 1.7              |
| 1000.0                        | 9 ± 0.9    | 6 ± 1.5    | 7 ± 1.2              | 11 ± 2.7             | 4 ± 1.2              |
| 3333.0                        | 5 ± 1.0    | 5 ± 1.2    | 7 ± 0.7              | 11 ± 2.4             | 9 ± 1.2              |
| 10000.0                       | Toxic      | Toxic      | 0 ± 0.0 <sup>x</sup> | 0 ± 0.0 <sup>x</sup> | 0 ± 0.0 <sup>x</sup> |
| Trial Summary                 | Negative   | Negative   | Negative             | Negative             | Negative             |
| Positive Control <sup>3</sup> |            |            |                      |                      | 85 ± 2.8             |
| Positive Control <sup>4</sup> | 430 ± 16.9 | 856 ± 2.8  |                      |                      |                      |
| Positive Control <sup>5</sup> |            |            | 54 ± 9.0             |                      |                      |
| Positive Control <sup>6</sup> |            |            |                      | 83 ± 5.0             |                      |

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**G06: Ames Summary Data**

Test Compound: Phenoxy acetic acid

CAS Number: 122-59-8

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**Strain: TA1535**

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| <b>Dose (ug/Plate)</b>        | <b>With 30% Hamster S9</b> |
|-------------------------------|----------------------------|
| Vehicle Control <sup>1</sup>  | 8 ± 1.9                    |
| 100.0                         | 6 ± 1.5                    |
| 333.0                         | 9 ± 1.2                    |
| 1000.0                        | 10 ± 1.7                   |
| 3333.0                        | 9 ± 1.7                    |
| 10000.0                       | 3 ± 1.0 <sup>x</sup>       |
| Trial Summary                 | Negative                   |
| Positive Control <sup>3</sup> |                            |
| Positive Control <sup>4</sup> |                            |
| Positive Control <sup>5</sup> | 352 ± 34.4                 |
| Positive Control <sup>6</sup> |                            |

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## G06: Ames Summary Data

Test Compound: Phenoxy acetic acid

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## Strain: TA97

| Dose (ug/Plate)               | Without S9             | Without S9           | With 10% Rat S9      | With 30% Rat S9        | With 10% Hamster S9  |
|-------------------------------|------------------------|----------------------|----------------------|------------------------|----------------------|
| Vehicle Control <sup>1</sup>  | 114 ± 8.5              | 124 ± 7.9            | 151 ± 2.8            | 166 ± 7.8              | 152 ± 6.4            |
| 100.0                         | 126 ± 4.4              | 124 ± 5.8            | 140 ± 4.8            | 193 ± 1.3              | 120 ± 2.1            |
| 333.0                         | 121 ± 4.3              | 122 ± 1.7            | 139 ± 3.2            | 173 ± 10.2             | 116 ± 5.3            |
| 1000.0                        | 97 ± 8.7               | 106 ± 3.5            | 129 ± 1.7            | 161 ± 0.7              | 111 ± 8.1            |
| 3333.0                        | 109 ± 6.0              | 109 ± 9.0            | 126 ± 2.7            | 150 ± 3.8              | 106 ± 4.9            |
| 10000.0                       | 33 ± 16.3 <sup>s</sup> | 0 ± 0.0 <sup>x</sup> | 0 ± 0.0 <sup>x</sup> | 56 ± 16.5 <sup>x</sup> | 0 ± 0.0 <sup>x</sup> |
| Trial Summary                 | Negative               | Negative             | Negative             | Negative               | Negative             |
| Positive Control <sup>2</sup> |                        |                      |                      |                        | 744 ± 17.0           |
| Positive Control <sup>3</sup> |                        |                      | 496 ± 19.6           |                        |                      |
| Positive Control <sup>5</sup> |                        |                      |                      | 600 ± 26.2             |                      |
| Positive Control <sup>7</sup> | 325 ± 23.2             | 488 ± 3.7            |                      |                        |                      |

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Strain: TA97

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| Dose (ug/Plate)               | With 30% Hamster S9   |
|-------------------------------|-----------------------|
| Vehicle Control <sup>1</sup>  | 137 ± 1.7             |
| 100.0                         | 149 ± 13.5            |
| 333.0                         | 150 ± 5.2             |
| 1000.0                        | 116 ± 1.9             |
| 3333.0                        | 125 ± 12.3            |
| 10000.0                       | 60 ± 7.3 <sup>x</sup> |
| Trial Summary                 | Negative              |
| Positive Control <sup>2</sup> |                       |
| Positive Control <sup>3</sup> | 696 ± 14.2            |
| Positive Control <sup>5</sup> |                       |
| Positive Control <sup>7</sup> |                       |

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## G06: Ames Summary Data

Test Compound: Phenoxy acetic acid

CAS Number: 122-59-8

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Time Report Requested: 15:38:49

## Strain: TA98

| Dose (ug/Plate)               | Without S9           | Without S9 | With 10% Rat S9      | With 30% Rat S9      | With 10% Hamster S9  |
|-------------------------------|----------------------|------------|----------------------|----------------------|----------------------|
| Vehicle Control <sup>1</sup>  | 14 ± 1.5             | 11 ± 1.9   | 14 ± 2.1             | 20 ± 1.5             | 14 ± 0.6             |
| 100.0                         | 15 ± 0.6             | 13 ± 1.5   | 10 ± 1.2             | 21 ± 2.4             | 19 ± 2.5             |
| 333.0                         | 18 ± 2.8             | 14 ± 2.4   | 17 ± 0.9             | 27 ± 5.5             | 14 ± 0.3             |
| 1000.0                        | 17 ± 2.3             | 14 ± 3.8   | 17 ± 3.0             | 17 ± 3.8             | 18 ± 2.9             |
| 3333.0                        | 14 ± 2.7             | 13 ± 4.4   | 11 ± 2.8             | 19 ± 1.2             | 16 ± 1.5             |
| 10000.0                       | 4 ± 1.0 <sup>s</sup> | Toxic      | 0 ± 0.0 <sup>x</sup> | 6 ± 0.7 <sup>x</sup> | 0 ± 0.0 <sup>x</sup> |
| Trial Summary                 | Negative             | Negative   | Negative             | Negative             | Negative             |
| Positive Control <sup>2</sup> |                      |            |                      |                      | 128 ± 17.0           |
| Positive Control <sup>3</sup> |                      |            | 90 ± 2.8             |                      |                      |
| Positive Control <sup>8</sup> | 338 ± 10.8           | 265 ± 8.7  |                      |                      |                      |
| Positive Control <sup>5</sup> |                      |            |                      | 360 ± 30.7           |                      |



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Strain: TA98

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| Dose (ug/Plate)               | With 30% Hamster S9   |
|-------------------------------|-----------------------|
| Vehicle Control <sup>1</sup>  | 20 ± 1.2              |
| 100.0                         | 20 ± 1.5              |
| 333.0                         | 21 ± 2.6              |
| 1000.0                        | 21 ± 3.8              |
| 3333.0                        | 21 ± 0.6              |
| 10000.0                       | 10 ± 1.5 <sup>x</sup> |
| Trial Summary                 | Negative              |
| Positive Control <sup>2</sup> |                       |
| Positive Control <sup>3</sup> | 372 ± 51.2            |
| Positive Control <sup>8</sup> |                       |
| 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: 2.0 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 5.0 ug/Plate 2-Aminoanthracene

6: 10.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

x: Slight Toxicity and Precipitate

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