

Experiment Number: 693617

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

**G06: Ames Summary Data**

Test Compound: **Tetraphenoxysilane**

CAS Number: 1174-72-7

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

Time Report Requested: **17:57:14**

**NTP Study Number:**

693617

**Study Result:**

Negative

Experiment Number: 693617

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Tetrphenoxysilane

CAS Number: 1174-72-7

Date Report Requested: 09/11/2018

Time Report Requested: 17:57:14

## 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>  | 146 ± 10.6             | 153 ± 3.5  | 107 ± 8.7       | 145 ± 10.4      | 104 ± 3.2           |
| 33.0                          | 146 ± 5.6              | 150 ± 3.8  | 112 ± 8.4       | 155 ± 8.8       | 105 ± 1.5           |
| 100.0                         | 130 ± 6.0              | 141 ± 3.7  | 98 ± 7.6        | 145 ± 8.5       | 98 ± 4.5            |
| 333.0                         | 153 ± 9.0              | 151 ± 14.8 | 100 ± 8.5       | 161 ± 7.0       | 103 ± 7.8           |
| 1000.0                        | 137 ± 6.7              | 149 ± 13.3 | 97 ± 6.6        | 157 ± 5.7       | 110 ± 3.8           |
| 3333.0                        | 65 ± 28.6 <sup>s</sup> | 146 ± 11.6 | 75 ± 3.2        | 96 ± 2.7        | 111 ± 6.5           |
| Trial Summary                 | Negative               | Negative   | Negative        | Negative        | Negative            |
| Positive Control <sup>2</sup> |                        |            |                 |                 |                     |
| Positive Control <sup>3</sup> |                        |            |                 |                 | 935 ± 402.3         |
| Positive Control <sup>4</sup> |                        |            | 805 ± 29.8      |                 |                     |
| Positive Control <sup>5</sup> |                        |            |                 | 501 ± 36.2      |                     |
| Positive Control <sup>6</sup> | 876 ± 24.0             | 900 ± 18.5 |                 |                 |                     |

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Strain: TA100

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| Dose (ug/Plate)               | With 30% Hamster S9 |
|-------------------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 164 ± 12.7          |
| 33.0                          | 131 ± 7.4           |
| 100.0                         | 146 ± 4.6           |
| 333.0                         | 132 ± 9.2           |
| 1000.0                        | 153 ± 4.0           |
| 3333.0                        | 108 ± 12.0          |
| Trial Summary                 | Negative            |
| Positive Control <sup>2</sup> |                     |
| Positive Control <sup>3</sup> | 723 ± 5.8           |
| Positive Control <sup>4</sup> |                     |
| Positive Control <sup>5</sup> |                     |
| Positive Control <sup>6</sup> |                     |

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## G06: Ames Summary Data

Test Compound: Tetrphenoxysilane

CAS Number: 1174-72-7

Date Report Requested: 09/11/2018

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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>  | 12 ± 3.4             | 13 ± 0.7   | 16 ± 0.9        | 11 ± 2.7        | 12 ± 0.6            |
| 33.0                          | 12 ± 2.2             | 13 ± 1.0   | 15 ± 1.0        | 14 ± 0.3        | 13 ± 0.9            |
| 100.0                         | 10 ± 2.2             | 15 ± 1.5   | 18 ± 0.3        | 13 ± 2.5        | 15 ± 1.9            |
| 333.0                         | 9 ± 1.5              | 15 ± 1.5   | 17 ± 1.9        | 12 ± 2.3        | 11 ± 1.2            |
| 1000.0                        | 13 ± 2.5             | 13 ± 0.9   | 16 ± 2.7        | 12 ± 1.7        | 14 ± 1.5            |
| 3333.0                        | 5 ± 2.1 <sup>s</sup> | 13 ± 1.7   | 18 ± 2.2        | 14 ± 2.9        | 11 ± 1.5            |
| Trial Summary                 | Negative             | Negative   | Negative        | Negative        | Negative            |
| Positive Control <sup>3</sup> |                      |            |                 |                 | 131 ± 8.4           |
| Positive Control <sup>5</sup> |                      |            | 115 ± 7.2       |                 |                     |
| Positive Control <sup>7</sup> |                      |            |                 | 112 ± 16.9      |                     |
| Positive Control <sup>6</sup> | 949 ± 5.6            | 939 ± 20.8 |                 |                 |                     |

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Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Tetrphenoxysilane  
CAS Number: 1174-72-7

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Time Report Requested: 17:57:14

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Strain: TA1535

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| Dose (ug/Plate)               | With 30% Hamster S9 |
|-------------------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 12 ± 1.5            |
| 33.0                          | 12 ± 2.4            |
| 100.0                         | 10 ± 1.5            |
| 333.0                         | 10 ± 2.2            |
| 1000.0                        | 9 ± 1.7             |
| 3333.0                        | 11 ± 1.2            |
| Trial Summary                 | Negative            |
| Positive Control <sup>3</sup> |                     |
| Positive Control <sup>5</sup> | 333 ± 10.4          |
| Positive Control <sup>7</sup> |                     |
| Positive Control <sup>6</sup> |                     |

Experiment Number: 693617

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Tetrathioxysilane

CAS Number: 1174-72-7

Date Report Requested: 09/11/2018

Time Report Requested: 17:57:14

## 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>  | 124 ± 6.1              | 127 ± 7.6  | 125 ± 6.4       | 146 ± 9.1       | 137 ± 2.8           |
| 33.0                          | 120 ± 3.0              | 123 ± 5.7  | 111 ± 9.7       | 159 ± 7.4       | 112 ± 2.1           |
| 100.0                         | 111 ± 3.5              | 144 ± 13.6 | 109 ± 3.2       | 151 ± 2.3       | 130 ± 5.2           |
| 333.0                         | 113 ± 1.8              | 118 ± 4.7  | 129 ± 12.0      | 128 ± 7.7       | 122 ± 0.7           |
| 1000.0                        | 123 ± 4.4              | 137 ± 9.9  | 120 ± 8.0       | 152 ± 14.1      | 127 ± 6.1           |
| 3333.0                        | 108 ± 8.9 <sup>s</sup> | 133 ± 11.7 | 109 ± 4.9       | 123 ± 5.9       | 103 ± 2.0           |
| Trial Summary                 | Negative               | Negative   | Negative        | Negative        | Negative            |
| Positive Control <sup>2</sup> |                        |            |                 |                 |                     |
| Positive Control <sup>3</sup> |                        |            |                 |                 | 906 ± 38.2          |
| Positive Control <sup>4</sup> |                        |            | 767 ± 52.5      |                 |                     |
| Positive Control <sup>5</sup> |                        |            |                 | 401 ± 36.4      |                     |
| Positive Control <sup>8</sup> | 328 ± 11.9             | 374 ± 4.1  |                 |                 |                     |

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Mutagenicity

G06: Ames Summary Data  
Test Compound: Tetrphenoxysilane  
CAS Number: 1174-72-7

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Strain: TA97

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| Dose (ug/Plate)               | With 30% Hamster S9 |
|-------------------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 129 ± 5.4           |
| 33.0                          | 123 ± 5.5           |
| 100.0                         | 144 ± 14.0          |
| 333.0                         | 118 ± 11.7          |
| 1000.0                        | 126 ± 13.0          |
| 3333.0                        | 114 ± 14.1          |
| Trial Summary                 | Negative            |
| Positive Control <sup>2</sup> |                     |
| Positive Control <sup>3</sup> | 523 ± 51.7          |
| Positive Control <sup>4</sup> |                     |
| Positive Control <sup>5</sup> |                     |
| Positive Control <sup>8</sup> |                     |

Experiment Number: 693617

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Tetraphenoxysilane

CAS Number: 1174-72-7

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Time Report Requested: 17:57:14

## 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>  | 24 ± 1.7             | 16 ± 1.2   | 21 ± 3.1        | 34 ± 1.8        | 20 ± 2.5            |
| 0.0                           |                      |            |                 |                 | 0 ± 0.0             |
| 33.0                          | 21 ± 1.5             | 17 ± 0.9   | 16 ± 0.7        | 29 ± 5.8        | 23 ± 3.1            |
| 100.0                         | 22 ± 2.7             | 21 ± 1.2   | 20 ± 0.9        | 27 ± 5.8        | 16 ± 1.8            |
| 333.0                         | 18 ± 1.5             | 19 ± 3.0   | 14 ± 1.0        | 27 ± 1.5        | 18 ± 1.7            |
| 1000.0                        | 19 ± 0.9             | 16 ± 1.7   | 18 ± 3.8        | 20 ± 4.0        | 21 ± 3.0            |
| 3333.0                        | 6 ± 1.8 <sup>s</sup> | 18 ± 2.3   | 9 ± 1.3         | 19 ± 1.7        | 12 ± 3.2            |
| Trial Summary                 | Negative             | Negative   | Negative        | Negative        | Negative            |
| Positive Control <sup>2</sup> |                      |            |                 |                 |                     |
| Positive Control <sup>3</sup> |                      |            |                 |                 | 1105 ± 3.2          |
| Positive Control <sup>4</sup> |                      |            | 767 ± 33.6      |                 |                     |
| Positive Control <sup>9</sup> | 349 ± 5.1            | 397 ± 11.5 |                 |                 |                     |
| Positive Control <sup>5</sup> |                      |            |                 | 163 ± 4.9       |                     |



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Strain: TA98

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| Dose (ug/Plate)               | With 30% Hamster S9 |
|-------------------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 29 ± 3.2            |
| 0.0                           |                     |
| 33.0                          | 31 ± 3.5            |
| 100.0                         | 25 ± 3.0            |
| 333.0                         | 26 ± 1.9            |
| 1000.0                        | 33 ± 2.0            |
| 3333.0                        | 17 ± 1.7            |
| Trial Summary                 | Negative            |
| Positive Control <sup>2</sup> |                     |
| Positive Control <sup>3</sup> | 232 ± 27.8          |
| Positive Control <sup>4</sup> |                     |
| Positive Control <sup>9</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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate 2-Aminoanthracene

6: 5.0 ug/Plate Sodium Azide

7: 5.0 ug/Plate 2-Aminoanthracene

8: 50.0 ug/Plate 9-Aminoacridine

9: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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