

Experiment Number: 557646

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

G06: Ames Summary Data

Test Compound: **o-Phenetidine**

CAS Number: **94-70-2**

Date Report Requested: **09/13/2018**

Time Report Requested: **22:09:13**

NTP Study Number:

557646

Study Result:

Equivocal

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Mutagenicity

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Test Compound: o-Phenetidine

CAS Number: 94-70-2

Date Report Requested: 09/13/2018

Time Report Requested: 22:09:13

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 |
|-------------------------------|------------|------------------------|-----------------------|-----------------|-----------------|
| Vehicle Control ¹ | 85 ± 2.7 | 129 ± 9.0 | 142 ± 7.0 | 101 ± 1.9 | 128 ± 2.7 |
| 33.0 | | 117 ± 8.5 | 120 ± 11.4 | | 112 ± 6.1 |
| 100.0 | 92 ± 2.0 | 120 ± 2.5 | 126 ± 4.9 | 108 ± 6.4 | 139 ± 9.9 |
| 333.0 | 93 ± 6.7 | 138 ± 7.8 | 39 ± 8.5 ^s | 120 ± 3.8 | 153 ± 4.7 |
| 1000.0 | 109 ± 1.3 | 147 ± 7.0 | 9 ± 3.0 ^s | 127 ± 4.3 | 126 ± 3.0 |
| 2000.0 | | 138 ± 8.1 ^s | 2 ± 0.0 ^s | | 123 ± 3.2 |
| 3333.0 | Toxic | | | Toxic | |
| 10000.0 | Toxic | | | Toxic | |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | |
| Positive Control ³ | | | | 1848 ± 47.3 | 1469 ± 69.2 |
| Positive Control ⁴ | | | | | |
| Positive Control ⁵ | 744 ± 16.2 | 973 ± 97.1 | 1251 ± 45.3 | | |

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Test Compound: o-Phenetidine

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Date Report Requested: 09/13/2018

Time Report Requested: 22:09:13

Strain: TA100

| Dose (ug/Plate) | With 30% Rat S9 | With 30% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 | With 10% Hamster S9 |
|-------------------------------|-----------------|-----------------------|-----------------------|---------------------|---------------------|
| Vehicle Control ¹ | 138 ± 8.1 | 81 ± 5.9 | 99 ± 6.2 | 91 ± 1.8 | 89 ± 3.5 |
| 33.0 | 154 ± 2.1 | 77 ± 3.5 | 96 ± 4.0 | | 123 ± 4.3 |
| 100.0 | 151 ± 8.6 | 84 ± 9.2 | 123 ± 2.0 | 135 ± 11.4 | 152 ± 12.2 |
| 333.0 | 201 ± 7.1 | 115 ± 2.6 | 162 ± 4.8 | 122 ± 1.7 | 152 ± 2.0 |
| 1000.0 | 236 ± 2.2 | 111 ± 12.2 | 151 ± 10.1 | 102 ± 1.2 | 123 ± 10.2 |
| 2000.0 | 190 ± 7.5 | 62 ± 2.6 ^s | 78 ± 3.8 ^s | | 114 ± 0.6 |
| 3333.0 | | | | Toxic | |
| 10000.0 | | | | Toxic | |
| Trial Summary | Equivocal | Equivocal | Equivocal | Equivocal | Equivocal |
| Positive Control ² | | | | 1125 ± 13.3 | 922 ± 43.9 |
| Positive Control ³ | | | | | |
| Positive Control ⁴ | 1204 ± 26.5 | 358 ± 11.0 | 372 ± 30.6 | | |
| Positive Control ⁵ | | | | | |

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Test Compound: o-Phenetidine
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Date Report Requested: 09/13/2018
Time Report Requested: 22:09:13

Strain: TA100

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|-----------------------|
| Vehicle Control ¹ | 116 ± 5.7 |
| 33.0 | 126 ± 6.4 |
| 100.0 | 137 ± 10.3 |
| 333.0 | 165 ± 6.0 |
| 1000.0 | 129 ± 4.1 |
| 2000.0 | 97 ± 6.7 ^s |
| 3333.0 | |
| 10000.0 | |
| Trial Summary | Equivocal |
| Positive Control ² | |
| Positive Control ³ | |
| Positive Control ⁴ | 898 ± 25.4 |
| Positive Control ⁵ | |

Experiment Number: 557646

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G06: Ames Summary Data

Test Compound: o-Phenetidine

CAS Number: 94-70-2

Date Report Requested: 09/13/2018

Time Report Requested: 22:09:13

Strain: TA1535

| Dose (ug/Plate) | Without S9 | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 |
|-------------------------------|------------|-----------------------|-----------------------|-----------------|-----------------|
| Vehicle Control ¹ | 14 ± 1.7 | 26 ± 2.3 | 28 ± 5.3 | 9 ± 2.0 | 9 ± 0.7 |
| 33.0 | | 24 ± 1.0 | 27 ± 1.2 | | 12 ± 0.3 |
| 100.0 | 15 ± 2.7 | 28 ± 0.9 | 29 ± 4.3 | 5 ± 0.6 | 13 ± 1.5 |
| 333.0 | 18 ± 4.7 | 28 ± 1.2 | 40 ± 4.7 | 9 ± 1.0 | 11 ± 0.7 |
| 1000.0 | 20 ± 2.0 | 36 ± 4.4 | 40 ± 2.8 | 9 ± 1.3 | 11 ± 3.7 |
| 2000.0 | | 38 ± 3.7 ^s | 38 ± 2.1 ^s | | 10 ± 1.5 |
| 3333.0 | Toxic | | | Toxic | |
| 10000.0 | Toxic | | | Toxic | |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | |
| Positive Control ³ | | | | 99 ± 2.2 | 152 ± 16.3 |
| Positive Control ⁴ | | | | | |
| Positive Control ⁵ | 661 ± 20.9 | 749 ± 12.7 | 970 ± 4.2 | | |

Experiment Number: 557646

Test Type: Genetic Toxicology - Bacterial
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G06: Ames Summary Data

Test Compound: o-Phenetidine

CAS Number: 94-70-2

Date Report Requested: 09/13/2018

Time Report Requested: 22:09:13

Strain: TA1535

| Dose (ug/Plate) | With 30% Rat S9 | With 10% Hamster S9 | With 10% Hamster S9 | With 30% Hamster S9 |
|-------------------------------|-----------------------|---------------------|---------------------|---------------------|
| Vehicle Control ¹ | 16 ± 0.6 | 8 ± 2.5 | 13 ± 4.0 | 11 ± 0.9 |
| 33.0 | 13 ± 0.3 | | 11 ± 1.5 | 10 ± 1.2 |
| 100.0 | 18 ± 0.6 | 9 ± 0.9 | 14 ± 1.5 | 14 ± 1.2 |
| 333.0 | 10 ± 1.2 | 6 ± 1.5 | 8 ± 0.9 | 10 ± 0.3 |
| 1000.0 | 20 ± 2.3 | 9 ± 1.2 | 11 ± 1.5 | 10 ± 0.9 |
| 2000.0 | 16 ± 0.9 ^s | | 14 ± 3.4 | 6 ± 0.9 |
| 3333.0 | | Toxic | | |
| 10000.0 | | Toxic | | |
| Trial Summary | Negative | Negative | Negative | Negative |
| Positive Control ² | | 75 ± 3.5 | 129 ± 18.0 | |
| Positive Control ³ | | | | |
| Positive Control ⁴ | 175 ± 16.9 | | | 97 ± 2.6 |
| Positive Control ⁵ | | | | |

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Test Compound: o-Phenetidine

CAS Number: 94-70-2

Date Report Requested: 09/13/2018

Time Report Requested: 22:09:13

Strain: TA97

| Dose (ug/Plate) | Without S9 | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 |
|-------------------------------|-------------|-----------------------|-----------------------|-----------------|------------------------|
| Vehicle Control ¹ | 82 ± 1.0 | 27 ± 4.6 | 106 ± 2.5 | 121 ± 5.5 | 83 ± 7.8 |
| 33.0 | | 28 ± 17.3 | 79 ± 13.2 | | 70 ± 4.9 |
| 100.0 | 74 ± 4.7 | 40 ± 13.3 | 56 ± 6.7 | 110 ± 4.3 | 81 ± 9.6 |
| 333.0 | 78 ± 1.8 | 102 ± 8.7 | 60 ± 4.5 | 104 ± 3.1 | 87 ± 9.3 |
| 1000.0 | 67 ± 2.6 | 78 ± 3.8 | 71 ± 14.0 | 117 ± 11.0 | 99 ± 12.7 |
| 2000.0 | | 65 ± 7.2 ^s | 72 ± 4.9 ^s | | 102 ± 3.8 ^s |
| 3333.0 | 0 ± 0.0 | | | Toxic | |
| 10000.0 | 0 ± 0.0 | | | Toxic | |
| Trial Summary | Negative | Equivocal | Negative | Negative | Negative |
| Positive Control ² | | | | | |
| Positive Control ³ | | | | 1149 ± 13.5 | 1200 ± 25.8 |
| Positive Control ⁴ | | | | | |
| Positive Control ⁶ | 1919 ± 28.4 | 640 ± 101.5 | 1312 ± 69.0 | | |

Experiment Number: 557646

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: o-Phenetidine

CAS Number: 94-70-2

Date Report Requested: 09/13/2018

Time Report Requested: 22:09:13

Strain: TA97

| Dose (ug/Plate) | With 30% Rat S9 | With 10% Hamster S9 | With 10% Hamster S9 | With 30% Hamster S9 |
|-------------------------------|-------------------------|---------------------|-----------------------|------------------------|
| Vehicle Control ¹ | 164 ± 20.8 | 106 ± 8.9 | 84 ± 3.8 | 145 ± 6.4 |
| 33.0 | 173 ± 12.9 | | 98 ± 7.0 | 147 ± 3.5 |
| 100.0 | 184 ± 8.7 | 114 ± 3.5 | 106 ± 8.2 | 166 ± 11.7 |
| 333.0 | 194 ± 3.8 | 131 ± 5.5 | 118 ± 4.2 | 182 ± 4.5 |
| 1000.0 | 168 ± 15.7 | 122 ± 11.8 | 108 ± 10.8 | 166 ± 1.7 |
| 2000.0 | 196 ± 19.0 ^s | | 89 ± 4.5 ^s | 145 ± 6.5 ^s |
| 3333.0 | | Toxic | | |
| 10000.0 | | Toxic | | |
| Trial Summary | Negative | Negative | Equivocal | Negative |
| Positive Control ² | | 725 ± 20.8 | 640 ± 28.7 | |
| Positive Control ³ | | | | |
| Positive Control ⁴ | 901 ± 66.5 | | | 740 ± 0.9 |
| Positive Control ⁶ | | | | |

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Test Compound: o-Phenetidine

CAS Number: 94-70-2

Date Report Requested: 09/13/2018

Time Report Requested: 22:09:13

Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 |
|-------------------------------|-------------|-----------------------|-----------------------|-----------------|-----------------|
| Vehicle Control ¹ | 13 ± 0.3 | 51 ± 3.2 | 14 ± 2.3 | 25 ± 3.1 | 55 ± 2.7 |
| 33.0 | | 48 ± 1.5 | 19 ± 0.3 | | 51 ± 5.0 |
| 100.0 | 16 ± 0.6 | 51 ± 2.4 | 21 ± 0.7 | 29 ± 3.1 | 54 ± 8.5 |
| 333.0 | 7 ± 1.3 | 45 ± 5.5 | 19 ± 3.5 | 26 ± 3.5 | 50 ± 2.3 |
| 1000.0 | 16 ± 2.7 | 46 ± 4.6 | 16 ± 0.7 | 37 ± 0.9 | 56 ± 3.0 |
| 2000.0 | | 42 ± 6.1 ^s | 18 ± 1.2 ^s | | 40 ± 1.2 |
| 3333.0 | Toxic | | | Toxic | |
| 10000.0 | Toxic | | | Toxic | |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | |
| Positive Control ³ | | | | 1554 ± 17.7 | 1220 ± 32.0 |
| Positive Control ⁴ | | | | | |
| Positive Control ⁷ | 1794 ± 13.8 | 1835 ± 46.0 | 1828 ± 46.7 | | |

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Time Report Requested: 22:09:13

Strain: TA98

| Dose (ug/Plate) | With 30% Rat S9 | With 30% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 | With 10% Hamster S9 |
|-------------------------------|-----------------|-----------------------|-----------------|---------------------|---------------------|
| Vehicle Control ¹ | 33 ± 2.1 | 32 ± 2.0 | 23 ± 2.9 | 29 ± 0.3 | 48 ± 6.9 |
| 33.0 | 49 ± 3.8 | 37 ± 4.5 | 23 ± 3.7 | | 47 ± 2.9 |
| 100.0 | 40 ± 3.9 | 33 ± 3.3 | 25 ± 2.6 | 30 ± 2.4 | 51 ± 4.7 |
| 333.0 | 46 ± 4.4 | 42 ± 0.7 | 33 ± 1.2 | 28 ± 0.9 | 47 ± 0.9 |
| 1000.0 | 63 ± 2.6 | 36 ± 3.4 | 29 ± 4.9 | 24 ± 1.9 | 35 ± 5.0 |
| 2000.0 | 48 ± 2.1 | 28 ± 2.6 ^s | 29 ± 3.7 | | 34 ± 1.2 |
| 3333.0 | | | | Toxic | |
| 10000.0 | | | | Toxic | |
| Trial Summary | Equivocal | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | 912 ± 7.1 | 832 ± 33.1 |
| Positive Control ³ | | | | | |
| Positive Control ⁴ | 1004 ± 185.8 | 296 ± 2.4 | 218 ± 16.1 | | |
| Positive Control ⁷ | | | | | |

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Test Compound: o-Phenetidine

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Time Report Requested: 22:09:13

Strain: TA98

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|---------------------|
| Vehicle Control ¹ | 31 ± 4.2 |
| 33.0 | 27 ± 0.6 |
| 100.0 | 32 ± 1.0 |
| 333.0 | 36 ± 2.3 |
| 1000.0 | 30 ± 4.0 |
| 2000.0 | 24 ± 2.2 |
| 3333.0 | |
| 10000.0 | |
| Trial Summary | Negative |
| Positive Control ² | |
| Positive Control ³ | |
| Positive Control ⁴ | 657 ± 32.9 |
| Positive Control ⁷ | |

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LEGEND

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: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 4.0 ug/Plate 9-Aminoacridine

7: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

** END OF REPORT **