

Experiment Number: 588917

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

G06: Ames Summary Data

Test Compound: **N-Methyl-o-phenylenediamine 2HCl**

CAS Number: 25148-68-9

Date Report Requested: 09/14/2018

Time Report Requested: 17:43:20

NTP Study Number:

588917

Study Result:

Positive

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CAS Number: 25148-68-9

Date Report Requested: 09/14/2018

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Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | Without S9 | With 5% Rat S9 | With 10% Rat S9 |
|-------------------------------|----------------------|------------|------------|----------------|-----------------|
| Vehicle Control ¹ | 140 ± 13.6 | 163 ± 6.5 | 120 ± 7.2 | 139 ± 5.2 | 138 ± 20.8 |
| 3.0 | | | 125 ± 1.5 | | |
| 10.0 | | 144 ± 5.9 | 122 ± 9.2 | | |
| 33.0 | 145 ± 14.6 | 167 ± 5.3 | 112 ± 17.6 | 134 ± 4.7 | 143 ± 8.0 |
| 66.0 | | 175 ± 14.1 | | | |
| 100.0 | 163 ± 4.5 | 149 ± 5.5 | 121 ± 6.4 | 127 ± 10.7 | 145 ± 4.9 |
| 166.0 | | 179 ± 1.5 | | | |
| 333.0 | 160 ± 3.9 | 188 ± 5.3 | 129 ± 9.5 | 138 ± 15.9 | 150 ± 4.2 |
| 666.0 | | | 157 ± 3.8 | 171 ± 15.1 | 213 ± 7.3 |
| 1000.0 | 63 ± 13.4 | | | 140 ± 6.0 | 158 ± 11.3 |
| 1666.0 | 0 ± 0.0 ^s | | | | |
| Trial Summary | Negative | Negative | Equivocal | Negative | Equivocal |
| Positive Control ² | | | | | |
| Positive Control ³ | | | | 1037 ± 179.8 | 650 ± 66.5 |
| Positive Control ⁴ | | | | | |
| Positive Control ⁵ | 459 ± 39.7 | 722 ± 28.5 | 544 ± 44.3 | | |

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Strain: TA100

| Dose (ug/Plate) | With 30% Rat S9 | With 30% Rat S9 | With 30% Rat S9 | With 30% Rat S9 | With 5% Hamster S9 |
|-------------------------------|-----------------|-----------------|-----------------|-----------------|--------------------|
| Vehicle Control ¹ | 152 ± 1.5 | 182 ± 4.9 | 127 ± 4.5 | 134 ± 9.5 | 119 ± 9.5 |
| 3.0 | | | | | |
| 10.0 | | | | | 137 ± 6.9 |
| 33.0 | 163 ± 8.4 | 187 ± 6.9 | 132 ± 5.2 | 142 ± 6.7 | 136 ± 4.1 |
| 66.0 | | | | | |
| 100.0 | 167 ± 2.9 | 193 ± 4.4 | 135 ± 0.7 | 155 ± 3.8 | 154 ± 9.0 |
| 166.0 | | | | | |
| 333.0 | 188 ± 12.2 | 191 ± 9.8 | 143 ± 5.3 | 152 ± 1.3 | 144 ± 10.1 |
| 666.0 | | 224 ± 3.7 | 233 ± 16.2 | 162 ± 14.7 | 160 ± 4.7 |
| 1000.0 | 254 ± 18.4 | 193 ± 10.0 | 206 ± 10.1 | 148 ± 5.4 | 172 ± 3.8 |
| 1666.0 | 190 ± 15.9 | | | | |
| Trial Summary | Equivocal | Equivocal | Equivocal | Negative | Equivocal |
| Positive Control ² | | | | | 1499 ± 25.7 |
| Positive Control ³ | | | | | |
| Positive Control ⁴ | 474 ± 13.3 | 445 ± 19.2 | 413 ± 16.7 | 587 ± 6.1 | |
| Positive Control ⁵ | | | | | |

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Strain: TA100

| Dose (ug/Plate) | With 10% Hamster S9 | With 30% Hamster S9 | With 30% Hamster S9 | With 30% Hamster S9 | With 30% Hamster S9 |
|-------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Vehicle Control ¹ | 131 ± 2.7 | 138 ± 6.3 | 164 ± 8.4 | 138 ± 11.6 | 119 ± 11.1 |
| 3.0 | | | | | |
| 10.0 | 146 ± 3.8 | | 179 ± 13.0 | 144 ± 3.8 | |
| 33.0 | 142 ± 2.7 | 160 ± 4.5 | 188 ± 10.8 | 152 ± 9.5 | 129 ± 5.6 |
| 66.0 | | | | | |
| 100.0 | 145 ± 7.1 | 183 ± 28.4 | 192 ± 7.5 | 152 ± 5.3 | 148 ± 16.3 |
| 166.0 | | | | | |
| 333.0 | 147 ± 7.2 | 187 ± 14.6 | 224 ± 8.3 | 168 ± 7.1 | 181 ± 10.3 |
| 666.0 | 264 ± 11.3 | | | 247 ± 6.8 | 228 ± 17.6 |
| 1000.0 | 217 ± 3.0 | 314 ± 12.2 | 273 ± 14.0 | 217 ± 3.2 | 179 ± 3.0 |
| 1666.0 | | 232 ± 9.8 | | | |
| Trial Summary | Weakly Positive | Positive | Weakly Positive | Equivocal | Weakly Positive |
| Positive Control ² | 1075 ± 64.0 | | | | |
| Positive Control ³ | | 643 ± 32.2 | 607 ± 19.5 | 788 ± 29.5 | |
| Positive Control ⁴ | | | | | 1263 ± 226.4 |
| Positive Control ⁵ | | | | | |

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Strain: TA1535

| Dose (ug/Plate) | With 30% Rat S9 | With 30% Hamster S9 |
|-------------------------------|------------------------|----------------------------|
| Vehicle Control ¹ | 13 ± 2.6 | 18 ± 2.7 |
| 33.0 | 12 ± 2.0 | 16 ± 2.3 |
| 100.0 | 14 ± 1.5 | 10 ± 2.0 |
| 333.0 | 11 ± 2.2 | 16 ± 2.2 |
| 666.0 | 11 ± 3.1 | 12 ± 1.2 |
| 1000.0 | 11 ± 1.8 | 10 ± 1.0 |
| Trial Summary | Negative | Negative |
| Positive Control ⁴ | | 241 ± 9.9 |
| Positive Control ⁶ | 143 ± 2.0 | |

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Test Compound: N-Methyl-o-phenylenediamine 2HCl

CAS Number: 25148-68-9

Date Report Requested: 09/14/2018

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Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | Without S9 | Without S9 | With 30% Rat S9 |
|-------------------------------|------------|-------------|-----------------------|------------|-----------------|
| Vehicle Control ¹ | 24 ± 2.4 | 21 ± 0.9 | 18 ± 0.9 | 25 ± 3.2 | 17 ± 2.1 |
| 0.1 | | | | 22 ± 3.4 | |
| 0.3 | | | | 22 ± 1.8 | |
| 1.0 | | | | 27 ± 1.2 | |
| 3.0 | | | 45 ± 4.5 | 21 ± 4.3 | |
| 10.0 | | 35 ± 2.9 | 41 ± 8.2 | 29 ± 5.8 | |
| 33.0 | 35 ± 4.8 | 40 ± 2.0 | 46 ± 3.7 | | 26 ± 3.6 |
| 66.0 | | 34 ± 3.7 | | | |
| 100.0 | 36 ± 3.5 | 40 ± 1.9 | 44 ± 4.1 | | 29 ± 6.6 |
| 166.0 | | 43 ± 2.9 | | | |
| 333.0 | 51 ± 6.6 | 55 ± 3.2 | 45 ± 8.8 | | 39 ± 6.7 |
| 666.0 | | | 32 ± 7.5 ^s | | |
| 1000.0 | 29 ± 1.9 | | | | 47 ± 5.0 |
| 1666.0 | 0 ± 0.0 | | | | 47 ± 8.2 |
| Trial Summary | Equivocal | Positive | Equivocal | Negative | Positive |
| Positive Control ³ | | | | | 121 ± 17.8 |
| Positive Control ⁷ | 785 ± 11.6 | 1127 ± 48.2 | 941 ± 2.1 | 716 ± 44.0 | |

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Strain: TA98

| Dose (ug/Plate) | With 30% Rat S9 | With 30% Rat S9 | With 30% Hamster S9 | With 30% Hamster S9 | With 30% Hamster S9 |
|-------------------------------|-----------------|-----------------|---------------------|---------------------|---------------------|
| Vehicle Control ¹ | 25 ± 1.5 | 22 ± 3.1 | 31 ± 5.2 | 20 ± 2.7 | 24 ± 2.7 |
| 0.1 | | | | | |
| 0.3 | | | | | |
| 1.0 | | | | | |
| 3.0 | | | | | |
| 10.0 | | | | | 22 ± 2.7 |
| 33.0 | 29 ± 3.8 | 24 ± 3.8 | 24 ± 3.8 | 31 ± 5.5 | 17 ± 1.8 |
| 66.0 | | | | | |
| 100.0 | 32 ± 3.0 | 37 ± 4.4 | 31 ± 3.8 | 35 ± 3.2 | 22 ± 4.2 |
| 166.0 | | | | | |
| 333.0 | 33 ± 3.7 | 42 ± 5.9 | 31 ± 0.3 | 45 ± 1.5 | 32 ± 4.9 |
| 666.0 | 44 ± 3.7 | 48 ± 2.6 | | | |
| 1000.0 | 54 ± 7.5 | 53 ± 1.5 | 50 ± 2.4 | 48 ± 3.5 | 49 ± 6.3 |
| 1666.0 | | 49 ± 4.2 | 65 ± 5.5 | 68 ± 2.3 | 71 ± 5.8 |
| Trial Summary | Weakly Positive | Positive | Positive | Positive | Positive |
| Positive Control ³ | 104 ± 3.0 | 204 ± 6.4 | 456 ± 21.6 | 395 ± 25.4 | 583 ± 24.4 |
| 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: Water

2: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate Sodium Azide

6: 5.0 ug/Plate 2-Aminoanthracene

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

s: Slight Toxicity

**** END OF REPORT ****