NTP Study Number: 923352
Study Result: Positive
### G06: Ames Summary Data

**Test Type:** Genetic Toxicology - Bacterial Mutagenicity  
**Test Compound:** N-Nitrosodiethylamine  
**CAS Number:** 55-18-5

**Strain:** TA100

<table>
<thead>
<tr>
<th>Dose (µg/Plate)</th>
<th>Without S9</th>
<th>Without S9</th>
<th>With 30% Rat S9</th>
<th>With 30% Rat S9</th>
<th>With 30% Hamster S9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle Control</td>
<td>111 ± 5.2</td>
<td>84 ± 8.2</td>
<td>113 ± 6.1</td>
<td>98 ± 4.8</td>
<td>139 ± 7.6</td>
</tr>
<tr>
<td>100.0</td>
<td>102 ± 3.8</td>
<td>77 ± 2.4</td>
<td>125 ± 15.4</td>
<td>87 ± 3.8</td>
<td>183 ± 3.6</td>
</tr>
<tr>
<td>333.0</td>
<td>108 ± 3.2</td>
<td>87 ± 7.6</td>
<td>113 ± 6.2</td>
<td>94 ± 5.5</td>
<td>215 ± 8.3</td>
</tr>
<tr>
<td>1000.0</td>
<td>101 ± 5.0</td>
<td>80 ± 6.1</td>
<td>132 ± 4.7</td>
<td>111 ± 7.2</td>
<td>441 ± 33.4</td>
</tr>
<tr>
<td>3333.0</td>
<td>137 ± 2.9</td>
<td>104 ± 1.5</td>
<td>154 ± 4.1</td>
<td>116 ± 9.5</td>
<td>675 ± 89.9</td>
</tr>
<tr>
<td>10000.0</td>
<td>178 ± 17.7</td>
<td>169 ± 8.7</td>
<td>199 ± 7.1</td>
<td>159 ± 12.9</td>
<td>1098 ± 30.6</td>
</tr>
</tbody>
</table>

**Trial Summary**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th>Weakly Positive</th>
<th></th>
<th>Positive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Positive Control</td>
<td>298 ± 10.5</td>
<td>278 ± 8.6</td>
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<td></td>
</tr>
<tr>
<td>Positive Control</td>
<td>305 ± 26.4</td>
<td>267 ± 9.0</td>
<td></td>
<td></td>
<td>475 ± 30.5</td>
</tr>
<tr>
<td>Positive Control</td>
<td>475 ± 30.5</td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Experiment Number: 923352  
Test Type: Genetic Toxicology - Bacterial Mutagenicity  
Test Compound: N-Nitrosodiethylamine  
CAS Number: 55-18-5  
Date Report Requested: 09/17/2018  
Time Report Requested: 06:51:15
<table>
<thead>
<tr>
<th>Dose (μg/Plate)</th>
<th>With 30% Hamster S9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle Control</td>
<td>111 ± 8.7</td>
</tr>
<tr>
<td>100.0</td>
<td>121 ± 0.0</td>
</tr>
<tr>
<td>333.0</td>
<td>188 ± 4.3</td>
</tr>
<tr>
<td>1000.0</td>
<td>415 ± 18.6</td>
</tr>
<tr>
<td>3333.0</td>
<td>927 ± 70.1</td>
</tr>
<tr>
<td>10000.0</td>
<td>1002 ± 62.9</td>
</tr>
</tbody>
</table>

Trial Summary
Positive

Positive Control
Positive Control
Positive Control
Positive Control
<table>
<thead>
<tr>
<th>Dose (ug/Plate)</th>
<th>Without S9</th>
<th>Without S9</th>
<th>With 30% Rat S9</th>
<th>With 30% Rat S9</th>
<th>With 30% Hamster S9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle Control</td>
<td>12 ± 3.2</td>
<td>15 ± 4.8</td>
<td>29 ± 1.9</td>
<td>26 ± 0.7</td>
<td>31 ± 2.0</td>
</tr>
<tr>
<td>100.0</td>
<td>12 ± 5.5</td>
<td>12 ± 3.0</td>
<td>17 ± 5.5</td>
<td>19 ± 2.1</td>
<td>33 ± 1.5</td>
</tr>
<tr>
<td>333.0</td>
<td>17 ± 1.7</td>
<td>12 ± 0.6</td>
<td>22 ± 4.7</td>
<td>22 ± 1.0</td>
<td>30 ± 5.9</td>
</tr>
<tr>
<td>1000.0</td>
<td>18 ± 0.9</td>
<td>10 ± 0.9</td>
<td>29 ± 5.2</td>
<td>20 ± 1.7</td>
<td>71 ± 3.8</td>
</tr>
<tr>
<td>3333.0</td>
<td>33 ± 3.0</td>
<td>15 ± 1.5</td>
<td>45 ± 0.5</td>
<td>29 ± 5.3</td>
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<td>10000.0</td>
<td>57 ± 1.5</td>
<td>40 ± 0.9</td>
<td>54 ± 2.1</td>
<td>39 ± 3.8</td>
<td>224 ± 17.6</td>
</tr>
</tbody>
</table>

**Trial Summary**
- Positive
- Equivocal
- Equivocal
- Negative
- Positive

**Positive Control**
- 137 ± 11.3

**Positive Control**
- 205 ± 14.6
- 159 ± 8.7
- 97 ± 6.4
- 73 ± 3.2
<table>
<thead>
<tr>
<th>Dose (µg/Plate)</th>
<th>With 30% Hamster S9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle Control</td>
<td>20 ± 3.3</td>
</tr>
<tr>
<td>100.0</td>
<td>25 ± 2.9</td>
</tr>
<tr>
<td>333.0</td>
<td>24 ± 2.0</td>
</tr>
<tr>
<td>1000.0</td>
<td>68 ± 7.0</td>
</tr>
<tr>
<td>3333.0</td>
<td>148 ± 5.5</td>
</tr>
<tr>
<td>10000.0</td>
<td>169 ± 8.7</td>
</tr>
</tbody>
</table>

Trial Summary: Positive

Positive Control$^5$: 66 ± 1.2
Positive Control$^6$
Positive Control$^3$
LEGEND

Values given as Mean or Mean ± 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 Sodium Azide
3: 1.0 ug/Plate 2-Aminoanthracene
4: 2.0 ug/Plate 2-Aminoanthracene
5: 0.4 ug/Plate 2-Aminoanthracene
6: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **