<table>
<thead>
<tr>
<th>Experiment Number: 290825</th>
<th>G06: Ames Summary Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Type: Genetic Toxicology - Bacterial Mutagenicity</td>
<td>Test Compound: Methyl isocyanate</td>
</tr>
<tr>
<td>Date Report Requested: 09/11/2018</td>
<td>CAS Number: 624-83-9</td>
</tr>
<tr>
<td>Time Report Requested: 20:57:14</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>NTP Study Number: 290825</th>
</tr>
</thead>
<tbody>
<tr>
<td>Study Result: Negative</td>
</tr>
<tr>
<td>Dose (ug/Plate)</td>
</tr>
<tr>
<td>----------------</td>
</tr>
<tr>
<td>Vehicle Control</td>
</tr>
<tr>
<td>0.3</td>
</tr>
<tr>
<td>1.0</td>
</tr>
<tr>
<td>3.3</td>
</tr>
<tr>
<td>10.0</td>
</tr>
<tr>
<td>33.0</td>
</tr>
<tr>
<td>333.0</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Trial Summary</td>
</tr>
<tr>
<td>Positive Control</td>
</tr>
<tr>
<td>Positive Control2</td>
</tr>
<tr>
<td>Positive Control3</td>
</tr>
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<td>Positive Control4</td>
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Strain: TA100
<table>
<thead>
<tr>
<th>Dose (µg/Plate)</th>
<th>With 10% Hamster S9</th>
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</thead>
<tbody>
<tr>
<td>Vehicle Control</td>
<td>142 ± 7.9</td>
</tr>
<tr>
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</tr>
<tr>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>3.3</td>
<td>159 ± 10.6</td>
</tr>
<tr>
<td>10.0</td>
<td>135 ± 8.4</td>
</tr>
<tr>
<td>33.0</td>
<td>140 ± 2.7</td>
</tr>
<tr>
<td>100.0</td>
<td>160 ± 3.7</td>
</tr>
<tr>
<td>333.0</td>
<td>137 ± 7.9</td>
</tr>
<tr>
<td>Trial Summary</td>
<td>Negative</td>
</tr>
<tr>
<td>Positive Control 2</td>
<td>1364 ± 22.1</td>
</tr>
<tr>
<td>Positive Control 3</td>
<td></td>
</tr>
<tr>
<td>Positive Control 4</td>
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</tr>
<tr>
<td>Dose (ug/Plate)</td>
<td>Without S9</td>
</tr>
<tr>
<td>----------------</td>
<td>------------</td>
</tr>
<tr>
<td>Vehicle Control</td>
<td>36 ± 3.2</td>
</tr>
<tr>
<td>0.3</td>
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</tr>
<tr>
<td>1.0</td>
<td>25 ± 1.9</td>
</tr>
<tr>
<td>3.3</td>
<td>25 ± 2.6</td>
</tr>
<tr>
<td>10.0</td>
<td>21 ± 0.0</td>
</tr>
<tr>
<td>33.0</td>
<td>15 ± 1.5‡</td>
</tr>
<tr>
<td>100.0</td>
<td>Toxic</td>
</tr>
<tr>
<td>333.0</td>
<td></td>
</tr>
</tbody>
</table>

Trial Summary

Negative

Positive Control

Positive Control

Positive Control

92 ± 3.8

74 ± 3.8

103 ± 7.3

760 ± 22.3

1032 ± 26.2
Experiment Number: 290825  
**Test Type:** Genetic Toxicology - Bacterial Mutagenicity  
**Test Compound:** Methyl isocyanate  
CAS Number: 624-83-9  

**G06: Ames Summary Data**  

<table>
<thead>
<tr>
<th>Dose (μg/Plate)</th>
<th>With 10% Hamster S9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle Control⁷</td>
<td>9 ± 1.9</td>
</tr>
<tr>
<td>0.3</td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>3.3</td>
<td>9 ± 2.3</td>
</tr>
<tr>
<td>10.0</td>
<td>10 ± 2.4</td>
</tr>
<tr>
<td>33.0</td>
<td>10 ± 1.2</td>
</tr>
<tr>
<td>100.0</td>
<td>11 ± 2.7</td>
</tr>
<tr>
<td>333.0</td>
<td>8 ± 0.3⁶</td>
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</tbody>
</table>

Trial Summary  
Negative

Positive Control²  
146 ± 9.2

Positive Control³  
Positive Control⁴
## Strain: TA1537

<table>
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<tr>
<th>Dose (µg/Plate)</th>
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<th>Without S9</th>
<th>With 10% Rat S9</th>
<th>With 10% Rat S9</th>
<th>With 10% Hamster S9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle Control</td>
<td>6 ± 0.9</td>
<td>9 ± 0.9</td>
<td>11 ± 1.2</td>
<td>10 ± 1.5</td>
<td>7 ± 1.2</td>
</tr>
<tr>
<td>0.3</td>
<td>9 ± 1.5</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td>5 ± 2.1</td>
<td>6 ± 1.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.3</td>
<td>9 ± 2.0</td>
<td>6 ± 1.7</td>
<td>9 ± 1.7</td>
<td>8 ± 2.7</td>
<td>10 ± 1.5</td>
</tr>
<tr>
<td>10.0</td>
<td>5 ± 0.9</td>
<td>11 ± 0.7</td>
<td>6 ± 0.6</td>
<td>9 ± 1.5</td>
<td>6 ± 2.3</td>
</tr>
<tr>
<td>33.0</td>
<td>5 ± 1.2</td>
<td>8 ± 1.7</td>
<td>10 ± 4.6</td>
<td>8 ± 0.9</td>
<td>11 ± 2.2</td>
</tr>
<tr>
<td>Toxic</td>
<td></td>
<td></td>
<td>8 ± 3.0</td>
<td>9 ± 0.7</td>
<td>8 ± 1.3</td>
</tr>
<tr>
<td>333.0</td>
<td></td>
<td></td>
<td>7 ± 2.9</td>
<td>7 ± 1.7</td>
<td>8 ± 1.2</td>
</tr>
</tbody>
</table>

### Trial Summary

- Negative
- Negative
- Negative
- Negative

### Positive Control

- 121 ± 11.6 (Experiment Number: 290825, Test Type: Genetic Toxicology - Bacterial Mutagenicity, CAS Number: 624-83-9, Date Report Requested: 09/11/2018, Time Report Requested: 20:57:14)
<table>
<thead>
<tr>
<th>Dose (µg/Plate)</th>
<th>With 10% Hamster S9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle Control$^7$</td>
<td>12 ± 0.6</td>
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<tr>
<td>0.3</td>
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<tr>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>3.3</td>
<td>10 ± 2.1</td>
</tr>
<tr>
<td>10.0</td>
<td>9 ± 0.9</td>
</tr>
<tr>
<td>33.0</td>
<td>10 ± 0.3</td>
</tr>
<tr>
<td>100.0</td>
<td>7 ± 2.7</td>
</tr>
<tr>
<td>333.0</td>
<td>7 ± 1.5$^6$</td>
</tr>
</tbody>
</table>

Trial Summary
Negative

Positive Control$^2$
119 ± 4.5

Positive Control$^3$

Positive Control$^5$
<table>
<thead>
<tr>
<th>Dose (µg/Plate)</th>
<th>Without S9</th>
<th>Without S9</th>
<th>With 10% Rat S9</th>
<th>With 10% Rat S9</th>
<th>With 10% Hamster S9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle Control</td>
<td>15 ± 2.7</td>
<td>22 ± 2.6</td>
<td>22 ± 2.6</td>
<td>22 ± 2.7</td>
<td>26 ± 2.3</td>
</tr>
<tr>
<td>0.3</td>
<td>20 ± 4.5</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td>15 ± 1.2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.3</td>
<td>14 ± 1.2</td>
<td>24 ± 2.6</td>
<td>19 ± 2.5</td>
<td>25 ± 6.4</td>
<td>27 ± 1.2</td>
</tr>
<tr>
<td>10.0</td>
<td>18 ± 1.7</td>
<td>21 ± 1.2</td>
<td>20 ± 3.3</td>
<td>24 ± 6.1</td>
<td>30 ± 0.7</td>
</tr>
<tr>
<td>33.0</td>
<td>9 ± 0.9s</td>
<td>18 ± 2.5s</td>
<td>21 ± 4.3</td>
<td>22 ± 2.3</td>
<td>26 ± 1.5</td>
</tr>
<tr>
<td>100.0</td>
<td>Toxic</td>
<td>24 ± 4.7</td>
<td>24 ± 3.1</td>
<td>27 ± 2.8</td>
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</tr>
<tr>
<td>333.0</td>
<td>Toxic</td>
<td>19 ± 1.5s</td>
<td>26 ± 2.7s</td>
<td>15 ± 1.3s</td>
<td></td>
</tr>
</tbody>
</table>

Trial Summary
- Negative
- Negative
- Negative
- Negative
- Negative

Positive Control
- 1313 ± 39.1
- 1061 ± 30.4
- 755 ± 13.4
- 1497 ± 28.3
- 1376 ± 7.4
### Strain: TA98

<table>
<thead>
<tr>
<th>Dose (ug/Plate)</th>
<th>With 10% Hamster S9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle Control</td>
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</tr>
<tr>
<td>0.3</td>
<td>32 ± 4.3</td>
</tr>
<tr>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>3.3</td>
<td>29 ± 1.5</td>
</tr>
<tr>
<td>10.0</td>
<td>23 ± 2.0</td>
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<tr>
<td>33.0</td>
<td>28 ± 1.2</td>
</tr>
<tr>
<td>100.0</td>
<td>29 ± 3.4</td>
</tr>
<tr>
<td>333.0</td>
<td>27 ± 2.8</td>
</tr>
</tbody>
</table>

**Trial Summary**

Negative

**Positive Control**

- Positive Control²: 1125 ± 58.3
- Positive Control³
- Positive Control⁶
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: 0.75 ug/Plate 2-Aminoanthracene
3: 1.5 ug/Plate 2-Aminoanthracene
4: 2.5 ug/Plate Sodium Azide
5: 80.0 ug/Plate 9-Aminoacridine
6: 12.0 ug/Plate 4-Nitro-O-Phenylendiamine
s: Slight Toxicity

** END OF REPORT **