

Experiment Number: A98065

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 3-Acetyl-2,5-dimethylfuran

CAS Number: 10599-70-9

Date Report Requested: 09/18/2018

Time Report Requested: 11:06:51

**NTP Study Number:**

A98065

**Study Result:**

Positive

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## Strain: TA100

| Dose (ug/Plate)               | Without S9 | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 |
|-------------------------------|------------|------------|------------|-----------------|-----------------|
| Vehicle Control <sup>1</sup>  | 44 ± 1.9   | 50 ± 1.9   | 73 ± 1.5   | 69 ± 7.3        | 49 ± 7.1        |
| 500.0                         |            | 64 ± 3.2   | 95 ± 6.7   |                 | 48 ± 1.8        |
| 750.0                         |            |            | 95 ± 8.0   |                 |                 |
| 1000.0                        | 79 ± 9.3   | 111 ± 6.3  | 111 ± 6.6  | 65 ± 1.9        | 47 ± 2.5        |
| 1500.0                        |            |            | 120 ± 7.9  |                 |                 |
| 2000.0                        |            | 103 ± 7.0  | 172 ± 12.9 |                 | 39 ± 3.3        |
| 2500.0                        | 46 ± 5.9   |            |            | 20 ± 4.2        |                 |
| 3000.0                        |            | 68 ± 9.1   |            |                 | 8 ± 6.9         |
| 4000.0                        |            | 54 ± 5.5   |            |                 | 0 ± 0.3         |
| 5000.0                        | 0 ± 0.0    |            |            | 0 ± 0.0         |                 |
| 7500.0                        | 0 ± 0.0    |            |            | 0 ± 0.0         |                 |
| 10000.0                       | 0 ± 0.0    |            |            | 0 ± 0.0         |                 |
| Trial Summary                 | Negative   | Positive   | Positive   | Negative        | Negative        |
| Positive Control <sup>2</sup> | 333 ± 12.5 | 383 ± 7.6  | 357 ± 4.1  |                 |                 |
| Positive Control <sup>3</sup> |            |            |            | 280 ± 10.0      | 369 ± 28.9      |

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**Strain: TA100**

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| <b>Dose (ug/Plate)</b>        | <b>With 10% Rat S9</b> |
|-------------------------------|------------------------|
| Vehicle Control <sup>1</sup>  | 60 ± 3.8               |
| 500.0                         | 70 ± 4.3               |
| 750.0                         | 68 ± 2.1               |
| 1000.0                        | 66 ± 6.0               |
| 1500.0                        | 62 ± 2.4               |
| 2000.0                        | 61 ± 5.6               |
| 2500.0                        |                        |
| 3000.0                        |                        |
| 4000.0                        |                        |
| 5000.0                        |                        |
| 7500.0                        |                        |
| 10000.0                       |                        |
| Trial Summary                 | Negative               |
| Positive Control <sup>2</sup> |                        |
| Positive Control <sup>3</sup> | 297 ± 5.0              |

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## Strain: TA98

| Dose (ug/Plate)               | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 |
|-------------------------------|------------|------------|-----------------|-----------------|
| Vehicle Control <sup>1</sup>  | 15 ± 2.4   | 23 ± 5.0   | 21 ± 2.8        | 23 ± 1.8        |
| 500.0                         |            | 19 ± 1.5   |                 | 22 ± 3.8        |
| 1000.0                        | 20 ± 2.4   | 17 ± 0.7   | 20 ± 3.2        | 21 ± 0.6        |
| 2000.0                        |            | 12 ± 2.3   |                 | 20 ± 0.9        |
| 2500.0                        | 11 ± 0.3   |            | 12 ± 2.5        |                 |
| 3000.0                        |            | 8 ± 0.9    |                 | 15 ± 3.2        |
| 4000.0                        |            | 0 ± 0.0    |                 | 0 ± 0.3         |
| 5000.0                        | 1 ± 1.3    |            | 0 ± 0.3         |                 |
| 7500.0                        | 0 ± 0.0    |            | 0 ± 0.0         |                 |
| 10000.0                       | 0 ± 0.0    |            | 0 ± 0.0         |                 |
| Trial Summary                 | Negative   | Negative   | Negative        | Negative        |
| Positive Control <sup>3</sup> |            |            | 190 ± 5.3       |                 |
| Positive Control <sup>4</sup> |            |            |                 | 561 ± 71.2      |
| Positive Control <sup>5</sup> | 252 ± 26.0 | 377 ± 26.8 |                 |                 |

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**Strain: E. coli WP2 uvrA pKM101**

| Dose (ug/Plate)               | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 |
|-------------------------------|------------|------------|-----------------|-----------------|
| Vehicle Control <sup>1</sup>  | 230 ± 2.2  | 145 ± 7.1  | 225 ± 5.4       | 203 ± 13.7      |
| 50.0                          | 195 ± 4.7  | 178 ± 6.2  | 179 ± 4.9       | 219 ± 5.1       |
| 100.0                         | 186 ± 7.9  | 167 ± 7.5  | 207 ± 9.2       | 203 ± 16.0      |
| 500.0                         | 211 ± 4.2  | 228 ± 9.6  | 219 ± 12.7      | 228 ± 8.5       |
| 1000.0                        | 310 ± 5.8  | 330 ± 7.4  | 220 ± 14.1      | 239 ± 5.3       |
| 2000.0                        | 513 ± 10.5 | 572 ± 8.4  |                 |                 |
| 5000.0                        |            |            | 203 ± 7.5       | 167 ± 3.9       |
| Trial Summary                 | Positive   | Positive   | Negative        | Negative        |
| Positive Control <sup>6</sup> |            |            | 759 ± 19.9      | 813 ± 33.8      |
| Positive Control <sup>7</sup> | 833 ± 54.0 | 627 ± 10.9 |                 |                 |

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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: 1.0 ug/Plate Sodium Azide

3: 2.5 ug/Plate 2-Aminoanthracene

4: 2.5 nmoles/L 2-Aminoanthracene

5: 5.0 ug/Plate 2-Nitrofluorene

6: 20.0 ug/Plate 2-Aminoanthracene

7: 4000.0 ug/Plate Methyl Methane Sulfonate

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