

Experiment Number: 830131

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

G06: Ames Summary Data

Test Compound: **beta-2-Furylacrolein**

CAS Number: **623-30-3**

Date Report Requested: **09/15/2018**

Time Report Requested: **19:12:19**

NTP Study Number:

830131

Study Result:

Negative

Experiment Number: 830131

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Mutagenicity

G06: Ames Summary Data

Test Compound: beta-2-Furylacrolein

CAS Number: 623-30-3

Date Report Requested: 09/15/2018

Time Report Requested: 19:12:19

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-------------|-------------|-----------------|-----------------|-----------------------|
| Vehicle Control ¹ | 166 ± 4.7 | 150 ± 8.5 | 103 ± 10.7 | 132 ± 9.1 | 87 ± 1.2 |
| 1.0 | | | | 134 ± 6.4 | |
| 3.3 | | | | 143 ± 6.9 | |
| 10.0 | | 137 ± 1.5 | 92 ± 4.6 | 129 ± 9.5 | 82 ± 2.3 |
| 33.0 | 165 ± 1.5 | 142 ± 3.7 | 117 ± 12.7 | 130 ± 5.9 | 89 ± 5.5 |
| 100.0 | 157 ± 15.3 | 135 ± 3.3 | 128 ± 13.0 | 126 ± 2.0 | 68 ± 4.0 ^s |
| 333.0 | 163 ± 2.6 | 135 ± 5.5 | Toxic | | Toxic |
| 1000.0 | 121 ± 7.6 | 147 ± 7.8 | Toxic | | Toxic |
| 2000.0 | Toxic | | | | |
| 3333.0 | | | | | |
| 10000.0 | | | | | |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | 776 ± 42.8 |
| Positive Control ³ | | | 1268 ± 35.6 | | |
| Positive Control ⁴ | | | | 734 ± 7.4 | |
| Positive Control ⁵ | 1587 ± 11.3 | 1014 ± 14.2 | | | |

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Date Report Requested: **09/15/2018**

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Strain: TA100

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 120 ± 1.5 |
| 1.0 | 113 ± 8.4 |
| 3.3 | 120 ± 3.3 |
| 10.0 | 121 ± 2.7 |
| 33.0 | 112 ± 7.5 |
| 100.0 | 116 ± 5.0 |
| 333.0 | |
| 1000.0 | |
| 2000.0 | |
| 3333.0 | |
| 10000.0 | |
| Trial Summary | Negative |
| Positive Control ² | |
| Positive Control ³ | |
| Positive Control ⁴ | 918 ± 45.7 |
| Positive Control ⁵ | |

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Test Compound: beta-2-Furylacrolein

CAS Number: 623-30-3

Date Report Requested: 09/15/2018

Time Report Requested: 19:12:19

Strain: TA1535

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-------------|------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 33 ± 6.3 | 30 ± 0.9 | 13 ± 0.6 | 25 ± 1.9 | 7 ± 0.3 |
| 1.0 | | | | 20 ± 3.1 | |
| 3.3 | | | | 16 ± 2.1 | |
| 10.0 | | 22 ± 1.7 | 14 ± 2.6 | 23 ± 3.8 | 12 ± 1.5 |
| 33.0 | 26 ± 3.9 | 30 ± 3.2 | 12 ± 2.5 | 16 ± 0.9 | 11 ± 2.0 |
| 100.0 | 36 ± 4.2 | 27 ± 3.5 | 14 ± 2.9 | 20 ± 3.8 | 11 ± 2.0 |
| 333.0 | 35 ± 0.3 | 31 ± 3.2 | Toxic | | Toxic |
| 1000.0 | 27 ± 1.7 | 19 ± 3.4 | Toxic | | Toxic |
| 2000.0 | Toxic | | | | |
| 3333.0 | | | | | |
| 10000.0 | | | | | |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | 109 ± 6.7 |
| Positive Control ³ | | | 122 ± 8.7 | | |
| Positive Control ⁴ | | | | 197 ± 11.9 | |
| Positive Control ⁵ | 1212 ± 15.6 | 966 ± 40.6 | | | |

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

G06: Ames Summary Data

Test Compound: **beta-2-Furylacrolein**

CAS Number: **623-30-3**

Date Report Requested: **09/15/2018**

Time Report Requested: **19:12:19**

Strain: TA1535

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 17 ± 3.3 |
| 1.0 | 12 ± 4.4 |
| 3.3 | 16 ± 2.5 |
| 10.0 | 15 ± 1.5 |
| 33.0 | 17 ± 1.9 |
| 100.0 | 16 ± 1.5 |
| 333.0 | |
| 1000.0 | |
| 2000.0 | |
| 3333.0 | |
| 10000.0 | |
| Trial Summary | Negative |
| Positive Control ² | |
| Positive Control ³ | |
| Positive Control ⁴ | 185 ± 15.6 |
| Positive Control ⁵ | |

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G06: Ames Summary Data

Test Compound: beta-2-Furylacrolein

CAS Number: 623-30-3

Date Report Requested: 09/15/2018

Time Report Requested: 19:12:19

Strain: TA97

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-----------------------|------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 94 ± 4.9 | 85 ± 3.4 | 121 ± 5.2 | 137 ± 3.6 | 98 ± 3.5 |
| 1.0 | | | | 153 ± 10.2 | |
| 3.3 | | | | 96 ± 42.6 | |
| 10.0 | | 76 ± 3.8 | 118 ± 3.9 | 150 ± 6.5 | 102 ± 2.2 |
| 33.0 | 91 ± 5.4 | 86 ± 3.2 | 119 ± 3.8 | 142 ± 11.1 | 143 ± 7.8 |
| 100.0 | 99 ± 5.1 | 84 ± 1.5 | 133 ± 4.4 | 160 ± 3.1 | 115 ± 2.6 |
| 333.0 | 109 ± 11.1 | 66 ± 9.3 | Toxic | | Toxic |
| 1000.0 | 83 ± 5.2 ^s | 77 ± 2.8 | Toxic | | Toxic |
| 2000.0 | Toxic | | | | |
| 3333.0 | | | | | |
| 10000.0 | | | | | |
| Trial Summary | Negative | Negative | Negative | Negative | Equivocal |
| Positive Control ² | | | | | 562 ± 6.4 |
| Positive Control ³ | | | 871 ± 18.8 | | |
| Positive Control ⁴ | | | | 567 ± 4.4 | |
| Positive Control ⁶ | 1802 ± 124.7 | 809 ± 13.0 | | | |

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G06: Ames Summary Data

Test Compound: **beta-2-Furylacrolein**

CAS Number: **623-30-3**

Date Report Requested: **09/15/2018**

Time Report Requested: **19:12:19**

Strain: TA97

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 124 ± 3.7 |
| 1.0 | 118 ± 1.8 |
| 3.3 | 117 ± 3.3 |
| 10.0 | 110 ± 3.2 |
| 33.0 | 102 ± 8.8 |
| 100.0 | 109 ± 5.5 |
| 333.0 | |
| 1000.0 | |
| 2000.0 | |
| 3333.0 | |
| 10000.0 | |
| Trial Summary | Negative |
| Positive Control ² | |
| Positive Control ³ | |
| Positive Control ⁴ | 669 ± 4.0 |
| Positive Control ⁶ | |

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Test Type: Genetic Toxicology - Bacterial Mutagenicity

G06: Ames Summary Data

Test Compound: beta-2-Furylacrolein

CAS Number: 623-30-3

Date Report Requested: 09/15/2018

Time Report Requested: 19:12:19

Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-------------|-------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 16 ± 2.5 | 17 ± 4.6 | 31 ± 4.4 | 24 ± 3.6 | 35 ± 3.3 |
| 1.0 | | | 30 ± 3.0 | 25 ± 3.0 | 34 ± 3.0 |
| 3.3 | | | 39 ± 9.6 | 26 ± 3.5 | 33 ± 5.9 |
| 10.0 | | 13 ± 2.7 | 27 ± 0.7 | 30 ± 3.5 | 31 ± 1.5 |
| 33.0 | 13 ± 4.1 | 11 ± 0.3 | 30 ± 1.7 | 23 ± 1.8 | 34 ± 3.2 |
| 100.0 | 15 ± 1.2 | 12 ± 2.2 | 30 ± 1.8 | 24 ± 2.3 | 36 ± 3.7 |
| 333.0 | 16 ± 2.1 | 15 ± 2.8 | | | |
| 1000.0 | 10 ± 0.9 | 8 ± 0.7 | | | |
| 2000.0 | Toxic | | | | |
| 3333.0 | | | | | |
| 10000.0 | | | | | |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | 1751 ± 33.8 |
| Positive Control ³ | | | 2217 ± 24.3 | | |
| Positive Control ⁴ | | | | 632 ± 27.4 | |
| Positive Control ⁷ | | 1670 ± 76.0 | | | |
| Positive Control ⁸ | 1503 ± 11.7 | | | | |

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Time Report Requested: 19:12:19

Strain: TA98

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 28 ± 5.7 |
| 1.0 | 26 ± 2.7 |
| 3.3 | 27 ± 2.9 |
| 10.0 | 29 ± 1.5 |
| 33.0 | 29 ± 2.6 |
| 100.0 | 25 ± 0.3 |
| 333.0 | |
| 1000.0 | |
| 2000.0 | |
| 3333.0 | |
| 10000.0 | |
| Trial Summary | Negative |
| Positive Control ² | |
| Positive Control ³ | |
| Positive Control ⁴ | 814 ± 35.4 |
| Positive Control ⁷ | |
| Positive Control ⁸ | |

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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 Sodium Azide

8: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****