

Experiment Number: 577308

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Zearalenone

CAS Number: 17924-92-4

Date Report Requested: 09/14/2018

Time Report Requested: 11:00:28

NTP Study Number:

577308

Study Result:

Negative

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Mutagenicity

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Test Compound: Zearelenone

CAS Number: 17924-92-4

Date Report Requested: 09/14/2018

Time Report Requested: 11:00:28

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-----------------------|------------------------|------------------------|------------------------|------------------------|
| Vehicle Control ¹ | 150 ± 0.3 | 86 ± 6.5 | 128 ± 3.5 | 131 ± 4.7 | 133 ± 5.0 |
| 10.0 | 137 ± 7.1 | 133 ± 15.5 | 144 ± 4.2 | 122 ± 4.9 | 134 ± 7.6 |
| 33.0 | 122 ± 15.9 | 130 ± 10.7 | 148 ± 5.8 | 140 ± 5.0 | 143 ± 11.6 |
| 100.0 | 118 ± 2.0 | 126 ± 8.4 | 163 ± 19.3 | 129 ± 3.5 | 139 ± 8.3 |
| 333.0 | 62 ± 3.2 ^s | 103 ± 8.6 | 133 ± 4.5 | 141 ± 3.3 | 108 ± 9.3 |
| 1000.0 | 0 ± 0.0 ^s | 115 ± 5.0 ^p | 131 ± 4.8 ^p | 142 ± 6.7 ^p | 119 ± 2.2 ^p |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | 507 ± 0.3 | 365 ± 12.5 | | | |
| Positive Control ³ | | | 820 ± 32.1 | 970 ± 95.7 | 1901 ± 61.3 |

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Strain: TA100

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|------------------------|
| Vehicle Control ¹ | 145 ± 6.8 |
| 10.0 | 121 ± 2.4 |
| 33.0 | 132 ± 4.2 |
| 100.0 | 120 ± 16.0 |
| 333.0 | 120 ± 10.8 |
| 1000.0 | 119 ± 4.6 ^p |
| Trial Summary | Negative |
| Positive Control ² | |
| Positive Control ³ | 1888 ± 400.9 |

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CAS Number: 17924-92-4

Date Report Requested: 09/14/2018

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Strain: TA1535

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-----------------------|-----------------------|-----------------------|----------------------|----------------------|
| Vehicle Control ¹ | 24 ± 1.5 | 17 ± 1.8 | 10 ± 2.2 | 13 ± 3.0 | 8 ± 2.0 |
| 10.0 | 18 ± 3.4 | 13 ± 3.8 | 10 ± 2.8 | 13 ± 0.6 | 11 ± 3.0 |
| 33.0 | 18 ± 4.1 | 17 ± 1.2 | 10 ± 2.3 | 11 ± 2.3 | 12 ± 0.3 |
| 100.0 | 15 ± 3.7 | 17 ± 4.4 | 9 ± 1.5 | 15 ± 0.3 | 8 ± 2.6 |
| 333.0 | 20 ± 3.2 | 12 ± 3.6 | 10 ± 1.8 | 8 ± 2.6 | 7 ± 1.5 |
| 1000.0 | 15 ± 2.5 ^p | 13 ± 1.5 ^p | 11 ± 2.0 ^p | 7 ± 1.0 ^p | 6 ± 1.5 ^p |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | 407 ± 1.2 | 222 ± 21.4 | | | |
| Positive Control ⁴ | | | 506 ± 17.9 | 295 ± 60.2 | 464 ± 22.8 |

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Test Compound: Zearalenone

CAS Number: 17924-92-4

Date Report Requested: 09/14/2018

Time Report Requested: 11:00:28

Strain: TA1535

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------|
| Vehicle Control ¹ | 9 ± 2.0 |
| 10.0 | 8 ± 2.4 |
| 33.0 | 10 ± 2.0 |
| 100.0 | 6 ± 1.5 |
| 333.0 | 8 ± 3.3 |
| 1000.0 | 7 ± 0.9 ^p |
| Trial Summary | Negative |
| Positive Control ² | |
| Positive Control ⁴ | 461 ± 32.1 |

Experiment Number: 577308

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Test Compound: Zearalenone

CAS Number: 17924-92-4

Date Report Requested: 09/14/2018

Time Report Requested: 11:00:28

Strain: TA1537

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|
| Vehicle Control ¹ | 6 ± 1.0 | 5 ± 0.3 | 5 ± 0.7 | 5 ± 0.0 | 7 ± 0.9 |
| 10.0 | 5 ± 0.3 | 3 ± 0.3 | 6 ± 1.2 | 7 ± 0.9 | 6 ± 0.3 |
| 33.0 | 6 ± 1.5 | 4 ± 1.3 | 8 ± 0.7 | 6 ± 1.2 | 6 ± 1.2 |
| 100.0 | 5 ± 1.2 | 5 ± 1.0 | 12 ± 1.3 | 5 ± 1.5 | 4 ± 0.6 |
| 333.0 | 3 ± 1.3 | 5 ± 0.9 | 6 ± 1.8 | 7 ± 2.7 | 6 ± 0.7 |
| 1000.0 | 7 ± 1.5 ^p | 6 ± 1.8 ^p | 4 ± 0.7 ^p | 7 ± 2.7 ^p | 10 ± 2.0 ^p |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ⁴ | | | 356 ± 8.3 | 281 ± 2.1 | 479 ± 40.9 |
| Positive Control ⁵ | 106 ± 16.8 | 364 ± 55.7 | | | |

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CAS Number: 17924-92-4

Date Report Requested: 09/14/2018
Time Report Requested: 11:00:28

Strain: TA1537

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------|
| Vehicle Control ¹ | 5 ± 1.9 |
| 10.0 | 7 ± 0.3 |
| 33.0 | 7 ± 0.9 |
| 100.0 | 9 ± 2.1 |
| 333.0 | 8 ± 2.3 |
| 1000.0 | 7 ± 0.7 ^P |
| Trial Summary | Negative |
| Positive Control ⁴ | 385 ± 63.6 |
| Positive Control ⁵ | |

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Test Compound: Zearalenone

CAS Number: 17924-92-4

Date Report Requested: 09/14/2018

Time Report Requested: 11:00:28

Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Vehicle Control ¹ | 22 ± 2.1 | 15 ± 0.9 | 29 ± 2.3 | 30 ± 4.0 | 28 ± 2.1 |
| 10.0 | 21 ± 2.7 | 17 ± 1.2 | 32 ± 0.6 | | 27 ± 2.4 |
| 26.0 | | | | 24 ± 1.5 | |
| 33.0 | 16 ± 2.1 | 15 ± 0.3 | 36 ± 5.8 | 29 ± 2.2 | 26 ± 3.5 |
| 100.0 | 21 ± 2.6 | 18 ± 0.6 | 27 ± 0.3 | 33 ± 2.4 | 29 ± 2.0 |
| 333.0 | 14 ± 0.9 | 18 ± 2.8 | 27 ± 7.4 | 31 ± 3.8 | 27 ± 1.5 |
| 1000.0 | 20 ± 0.3 ^p | 16 ± 0.7 ^p | 19 ± 2.9 ^p | 28 ± 1.8 ^p | 24 ± 2.3 ^p |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ³ | | | 612 ± 9.1 | 719 ± 17.3 | 1551 ± 162.2 |
| Positive Control ⁶ | 943 ± 78.7 | 788 ± 85.0 | | | |

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Test Compound: Zearalenone
CAS Number: 17924-92-4

Date Report Requested: 09/14/2018
Time Report Requested: 11:00:28

Strain: TA98

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|-----------------------|
| Vehicle Control ¹ | 28 ± 1.9 |
| 10.0 | 31 ± 2.3 |
| 26.0 | |
| 33.0 | 25 ± 2.6 |
| 100.0 | 19 ± 0.3 |
| 333.0 | 26 ± 5.4 |
| 1000.0 | 40 ± 2.2 ^P |
| Trial Summary | Negative |
| Positive Control ³ | 1845 ± 75.2 |
| Positive Control ⁶ | |

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G06: Ames Summary Data

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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: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****