

Experiment Number: 468575

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Pivalyl-1,3-indandione

CAS Number: 83-26-1

Date Report Requested: 09/11/2018

Time Report Requested: 10:51:01

NTP Study Number:

468575

Study Result:

Negative

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Test Compound: 2-Pivalyl-1,3-indandione

CAS Number: 83-26-1

Date Report Requested: 09/11/2018

Time Report Requested: 10:51:01

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 |
|-------------------------------|------------|------------|-------------|-----------------|-----------------|
| Vehicle Control ¹ | 76 ± 2.4 | 80 ± 4.4 | 152 ± 7.9 | 150 ± 12.2 | 117 ± 3.9 |
| 0.3 | | 81 ± 5.1 | 157 ± 5.1 | | |
| 1.0 | | 78 ± 4.0 | 153 ± 10.6 | | 111 ± 3.0 |
| 3.3 | 78 ± 3.9 | 72 ± 1.2 | 141 ± 7.2 | 114 ± 1.8 | 112 ± 14.1 |
| 10.0 | 94 ± 9.3 | 78 ± 4.7 | 173 ± 13.3 | 129 ± 9.2 | 88 ± 5.9 |
| 33.0 | 85 ± 12.4 | 59 ± 1.2 | 130 ± 10.0 | 87 ± 8.2 | 65 ± 3.2 |
| 100.0 | Toxic | | | Toxic | Toxic |
| 333.0 | Toxic | | | Toxic | |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | 2448 ± 33.3 | 2178 ± 14.3 |
| Positive Control ³ | 992 ± 3.3 | 799 ± 27.7 | 1459 ± 78.9 | | |

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Strain: TA100

| Dose (ug/Plate) | With 10% Rat S9 | With 10% Hamster S9 | With 10% Hamster S9 | With 10% Hamster S9 |
|-------------------------------|-----------------|---------------------|---------------------|---------------------|
| Vehicle Control ¹ | 159 ± 16.8 | 127 ± 5.8 | 117 ± 19.3 | 186 ± 1.2 |
| 0.3 | | | | |
| 1.0 | 182 ± 5.3 | | 106 ± 9.3 | 152 ± 8.5 |
| 3.3 | 180 ± 11.0 | 117 ± 4.3 | 118 ± 12.2 | 195 ± 10.2 |
| 10.0 | 201 ± 2.0 | 123 ± 10.8 | 104 ± 2.7 | 174 ± 6.2 |
| 33.0 | 176 ± 6.7 | 87 ± 7.0 | 76 ± 3.8 | 161 ± 11.9 |
| 100.0 | 159 ± 15.5 | Toxic | Toxic | 175 ± 10.7 |
| 333.0 | | Toxic | | |
| Trial Summary | Negative | Negative | Negative | Negative |
| Positive Control ² | 558 ± 7.2 | 1271 ± 29.5 | 2048 ± 71.3 | 2082 ± 357.6 |
| Positive Control ³ | | | | |

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Test Compound: 2-Pivalyl-1,3-indandione

CAS Number: 83-26-1

Date Report Requested: 09/11/2018

Time Report Requested: 10:51:01

Strain: TA1535

| Dose (ug/Plate) | Without S9 | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 |
|-------------------------------|------------|------------|------------|-----------------|-----------------|
| Vehicle Control ¹ | 6 ± 2.3 | 6 ± 0.6 | 22 ± 3.7 | 13 ± 2.6 | 11 ± 1.2 |
| 0.3 | | 9 ± 2.0 | 23 ± 2.0 | | 8 ± 1.5 |
| 1.0 | | 7 ± 1.5 | 24 ± 2.3 | | 5 ± 0.6 |
| 3.3 | 5 ± 0.6 | 4 ± 0.9 | 22 ± 3.7 | 5 ± 2.3 | 9 ± 1.0 |
| 10.0 | 3 ± 1.2 | 10 ± 2.2 | 20 ± 1.9 | 5 ± 2.0 | 10 ± 1.5 |
| 33.0 | 3 ± 0.6 | 8 ± 1.2 | 22 ± 2.7 | 6 ± 0.9 | 7 ± 0.3 |
| 100.0 | Toxic | | | Toxic | |
| 333.0 | 0 ± 0.0 | | | Toxic | |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ⁴ | | | | 140 ± 12.3 | 140 ± 9.1 |
| Positive Control ³ | 393 ± 26.8 | 459 ± 14.0 | 905 ± 26.1 | | |

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Test Compound: 2-Pivalyl-1,3-indandione

CAS Number: 83-26-1

Date Report Requested: 09/11/2018

Time Report Requested: 10:51:01

Strain: TA1535

| Dose (ug/Plate) | With 10% Rat S9 | With 10% Hamster S9 | With 10% Hamster S9 | With 10% Hamster S9 |
|-------------------------------|-----------------|---------------------|---------------------|---------------------|
| Vehicle Control ¹ | 23 ± 1.3 | 7 ± 2.2 | 5 ± 1.5 | 26 ± 1.5 |
| 0.3 | 28 ± 2.3 | | 8 ± 2.2 | 23 ± 1.5 |
| 1.0 | 21 ± 2.0 | | 9 ± 0.6 | 23 ± 2.2 |
| 3.3 | 21 ± 1.5 | 6 ± 0.6 | 10 ± 1.9 | 29 ± 2.9 |
| 10.0 | 23 ± 2.1 | 5 ± 1.7 | 6 ± 0.3 | 28 ± 2.4 |
| 33.0 | 12 ± 5.0 | 3 ± 1.0 | 5 ± 0.6 | 33 ± 3.1 |
| 100.0 | | Toxic | | |
| 333.0 | | Toxic | | |
| Trial Summary | Negative | Negative | Negative | Negative |
| Positive Control ⁴ | 281 ± 11.6 | 40 ± 5.3 | 149 ± 6.8 | 311 ± 44.5 |
| Positive Control ³ | | | | |

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Test Compound: 2-Pivalyl-1,3-indandione

CAS Number: 83-26-1

Date Report Requested: 09/11/2018

Time Report Requested: 10:51:01

Strain: TA1537

| Dose (ug/Plate) | Without S9 | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 |
|-------------------------------|------------|------------|------------|-----------------|-----------------|
| Vehicle Control ¹ | 5 ± 0.9 | 4 ± 0.3 | 12 ± 2.0 | 6 ± 2.2 | 7 ± 0.3 |
| 0.1 | | | | | 6 ± 0.7 |
| 0.3 | | 6 ± 0.7 | 4 ± 0.3 | | 10 ± 1.3 |
| 1.0 | | 4 ± 1.0 | 5 ± 0.3 | | 8 ± 0.6 |
| 3.3 | 2 ± 0.7 | 5 ± 0.9 | 3 ± 0.3 | 3 ± 0.9 | 8 ± 1.5 |
| 10.0 | 4 ± 0.3 | 3 ± 1.2 | 4 ± 0.9 | 7 ± 0.9 | 9 ± 0.3 |
| 33.0 | 4 ± 2.0 | Toxic | Toxic | Toxic | |
| 100.0 | 2 ± 1.2 | | | Toxic | |
| 333.0 | 0 ± 0.0 | | | 0 ± 0.0 | |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ⁴ | | | | 57 ± 8.4 | 182 ± 9.3 |
| Positive Control ⁵ | 163 ± 24.6 | 195 ± 15.0 | 105 ± 19.1 | | |

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Test Compound: 2-Pivalyl-1,3-indandione

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Time Report Requested: 10:51:01

Strain: TA1537

| Dose (ug/Plate) | With 10% Rat S9 | With 10% Hamster S9 | With 10% Hamster S9 | With 10% Hamster S9 |
|-------------------------------|-----------------|---------------------|---------------------|---------------------|
| Vehicle Control ¹ | 10 ± 1.7 | 6 ± 0.3 | 6 ± 0.0 | 9 ± 2.3 |
| 0.1 | 6 ± 1.5 | | 7 ± 0.3 | 3 ± 0.7 |
| 0.3 | 2 ± 0.6 | | 6 ± 1.2 | 4 ± 0.6 |
| 1.0 | 5 ± 2.0 | | 6 ± 0.6 | 5 ± 0.7 |
| 3.3 | 5 ± 0.6 | 7 ± 0.3 | 7 ± 1.0 | 6 ± 0.9 |
| 10.0 | 4 ± 0.0 | 8 ± 2.4 | 10 ± 2.6 | 5 ± 1.2 |
| 33.0 | | Toxic | | |
| 100.0 | | Toxic | | |
| 333.0 | | Toxic | | |
| Trial Summary | Negative | Negative | Negative | Negative |
| Positive Control ⁴ | 62 ± 8.3 | 42 ± 3.5 | 190 ± 7.9 | 33 ± 3.3 |
| Positive Control ⁵ | | | | |

Experiment Number: 468575

G06: Ames Summary Data

Date Report Requested: 09/11/2018

Test Type: **Genetic Toxicology - Bacterial Mutagenicity**Test Compound: **2-Pivalyl-1,3-indandione**

Time Report Requested: 10:51:01

CAS Number: 83-26-1

Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 |
|-------------------------------|-------------------|-------------------|-------------------|------------------------|------------------------|
| Vehicle Control ¹ | 18 ± 2.7 | 15 ± 1.8 | 30 ± 1.5 | 25 ± 0.9 | 23 ± 4.0 |
| 0.3 | | 14 ± 0.9 | 25 ± 5.8 | | |
| 1.0 | | 14 ± 0.6 | 30 ± 2.3 | | 21 ± 3.8 |
| 3.3 | 17 ± 3.7 | 13 ± 2.3 | 24 ± 3.0 | 20 ± 2.1 | 21 ± 5.0 |
| 10.0 | 19 ± 3.8 | 16 ± 3.8 | 25 ± 3.3 | 20 ± 1.3 | 19 ± 2.7 |
| 33.0 | 13 ± 0.3 | 10 ± 3.4 | 24 ± 3.1 | 13 ± 0.3 | 19 ± 3.8 |
| 100.0 | Toxic | | | Toxic | Toxic |
| 333.0 | 7 ± 1.5 | | | Toxic | |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | 1739 ± 107.9 | 1065 ± 120.8 |
| Positive Control ⁶ | 204 ± 13.6 | 226 ± 21.5 | 234 ± 6.7 | | |

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Test Compound: 2-Pivalyl-1,3-indandione

CAS Number: 83-26-1

Date Report Requested: 09/11/2018

Time Report Requested: 10:51:01

Strain: TA98

| Dose (ug/Plate) | With 10% Rat S9 | With 10% Hamster S9 | With 10% Hamster S9 | With 10% Hamster S9 |
|-------------------------------|-----------------|---------------------|---------------------|---------------------|
| Vehicle Control ¹ | 8 ± 1.5 | 20 ± 2.5 | 26 ± 4.2 | 45 ± 4.7 |
| 0.3 | | | | |
| 1.0 | 6 ± 1.3 | | 23 ± 4.8 | 44 ± 4.7 |
| 3.3 | 13 ± 0.6 | 16 ± 1.9 | 24 ± 3.5 | 33 ± 1.8 |
| 10.0 | 9 ± 3.1 | 22 ± 4.0 | 17 ± 4.5 | 36 ± 4.8 |
| 33.0 | 5 ± 1.5 | 14 ± 1.2 | 12 ± 1.3 | 29 ± 5.5 |
| 100.0 | 7 ± 2.5 | Toxic | Toxic | 31 ± 5.9 |
| 333.0 | | Toxic | | |
| Trial Summary | Negative | Negative | Negative | Negative |
| Positive Control ² | 555 ± 35.2 | 1367 ± 62.1 | 1911 ± 107.8 | 1180 ± 55.2 |
| Positive Control ⁶ | | | | |

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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 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****