

Experiment Number: 940869

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Dimethyl hydrogen phosphite

CAS Number: 868-85-9

Date Report Requested: 09/17/2018

Time Report Requested: 12:34:25

NTP Study Number:

940869

Study Result:

Weakly Positive

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Test Compound: Dimethyl hydrogen phosphite
CAS Number: 868-85-9

Date Report Requested: 09/17/2018

Time Report Requested: 12:34:25

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-------------|------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 144 ± 5.5 | 136 ± 1.7 | 126 ± 4.3 | 148 ± 4.0 | 136 ± 2.4 |
| 100.0 | 139 ± 6.6 | | 143 ± 9.9 | | 149 ± 2.6 |
| 333.0 | 145 ± 3.7 | | 148 ± 8.7 | | 153 ± 6.0 |
| 1000.0 | 156 ± 2.0 | 162 ± 2.8 | 143 ± 9.1 | 153 ± 5.8 | 139 ± 2.6 |
| 3333.0 | 157 ± 1.8 | 173 ± 1.2 | 146 ± 12.1 | 166 ± 5.5 | 170 ± 8.3 |
| 5000.0 | | 175 ± 6.0 | | 170 ± 4.4 | |
| 7500.0 | | 193 ± 2.3 | | 162 ± 7.4 | |
| 10000.0 | 172 ± 9.8 | 190 ± 2.9 | 156 ± 6.6 | 161 ± 7.8 | 190 ± 1.0 |
| Trial Summary | Negative | Equivocal | Equivocal | Negative | Equivocal |
| Positive Control ² | | | | | 804 ± 24.5 |
| Positive Control ³ | | | 543 ± 13.5 | 1430 ± 43.1 | |
| Positive Control ⁴ | 1210 ± 14.0 | 1000 ± 3.2 | | | |

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Strain: TA100

| Dose (ug/Plate) | With 10% Hamster S9 | With 30% Hamster S9 |
|-------------------------------|----------------------------|----------------------------|
| Vehicle Control ¹ | 142 ± 6.7 | 165 ± 7.8 |
| 100.0 | | |
| 333.0 | | |
| 1000.0 | 147 ± 3.5 | 155 ± 5.8 |
| 3333.0 | 174 ± 13.9 | 171 ± 11.1 |
| 5000.0 | 187 ± 11.7 | 177 ± 15.6 |
| 7500.0 | 200 ± 6.4 | 189 ± 12.9 |
| 10000.0 | 193 ± 10.0 | 196 ± 9.7 |
| Trial Summary | Equivocal | Equivocal |
| Positive Control ² | 1004 ± 168.0 | 1103 ± 37.3 |
| Positive Control ³ | | |
| Positive Control ⁴ | | |

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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 | 28 ± 2.0 | 37 ± 0.6 | 13 ± 2.2 | 13 ± 2.3 | 12 ± 0.9 |
| 100.0 | 31 ± 4.6 | | 17 ± 1.9 | | 12 ± 1.7 |
| 333.0 | 26 ± 3.0 | | 13 ± 1.0 | | 14 ± 2.7 |
| 1000.0 | 27 ± 2.1 | 31 ± 5.8 | 18 ± 0.3 | 15 ± 1.5 | 13 ± 1.7 |
| 3333.0 | 26 ± 0.3 | 31 ± 2.8 | 21 ± 3.8 | 19 ± 3.8 | 14 ± 1.9 |
| 5000.0 | | 33 ± 2.0 | | 16 ± 2.7 | |
| 7500.0 | | 34 ± 1.7 | | 13 ± 1.2 | |
| 10000.0 | 23 ± 3.2 | 33 ± 1.0 | 18 ± 0.9 | 19 ± 2.2 | 16 ± 1.5 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | 91 ± 10.8 |
| Positive Control ³ | | | 84 ± 8.7 | 73 ± 4.2 | |
| Positive Control ⁴ | 968 ± 17.6 | 920 ± 38.9 | | | |

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Strain: TA1535

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|---------------------|
| Vehicle Control ¹ | 12 ± 2.2 |
| 100.0 | |
| 333.0 | |
| 1000.0 | 19 ± 2.3 |
| 3333.0 | 18 ± 2.1 |
| 5000.0 | 17 ± 2.4 |
| 7500.0 | 21 ± 2.6 |
| 10000.0 | 18 ± 2.7 |
| Trial Summary | Negative |
| Positive Control ² | 237 ± 28.5 |
| Positive Control ³ | |
| Positive Control ⁴ | |

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Date Report Requested: 09/17/2018

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Strain: TA1537

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------|------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 7 ± 2.3 | 5 ± 1.0 | 8 ± 1.8 | 6 ± 1.3 | 10 ± 0.6 |
| 100.0 | 7 ± 2.2 | | 11 ± 1.2 | | 9 ± 3.2 |
| 333.0 | 7 ± 2.0 | | 8 ± 1.0 | | 9 ± 2.6 |
| 1000.0 | 8 ± 2.3 | 4 ± 0.6 | 11 ± 0.7 | 7 ± 2.0 | 12 ± 1.9 |
| 3333.0 | 8 ± 2.4 | 3 ± 0.6 | 12 ± 1.7 | 7 ± 0.9 | 11 ± 0.5 |
| 5000.0 | | 7 ± 2.0 | | 7 ± 2.2 | |
| 7500.0 | | 6 ± 1.5 | | 6 ± 0.6 | |
| 10000.0 | 8 ± 0.7 | 3 ± 0.6 | 6 ± 0.3 | 5 ± 1.2 | 7 ± 0.7 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | 86 ± 5.6 |
| Positive Control ³ | | | 60 ± 5.5 | 200 ± 14.5 | |
| Positive Control ⁵ | 223 ± 50.4 | 341 ± 49.1 | | | |

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Strain: TA1537

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|---------------------|
| Vehicle Control ¹ | 8 ± 1.8 |
| 100.0 | |
| 333.0 | |
| 1000.0 | 10 ± 1.2 |
| 3333.0 | 6 ± 2.1 |
| 5000.0 | 7 ± 1.2 |
| 7500.0 | 9 ± 0.7 |
| 10000.0 | 9 ± 2.3 |
| Trial Summary | Negative |
| Positive Control ² | 136 ± 16.5 |
| Positive Control ³ | |
| Positive Control ⁵ | |

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Time Report Requested: 12:34:25

Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-------------|-------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 24 ± 5.4 | 19 ± 1.9 | 27 ± 3.5 | 31 ± 1.7 | 40 ± 3.2 |
| 100.0 | 21 ± 3.4 | | 29 ± 3.3 | | 32 ± 3.7 |
| 333.0 | 16 ± 3.2 | | 29 ± 2.6 | | 30 ± 3.8 |
| 1000.0 | 25 ± 4.9 | 18 ± 1.2 | 29 ± 7.3 | 20 ± 1.8 | 33 ± 1.2 |
| 3333.0 | 21 ± 1.9 | 19 ± 2.2 | 29 ± 4.1 | 25 ± 3.5 | 29 ± 3.8 |
| 5000.0 | | 18 ± 1.8 | | 28 ± 1.5 | |
| 7500.0 | | 17 ± 4.8 | | 25 ± 1.5 | |
| 10000.0 | 12 ± 1.2 | 18 ± 1.2 | 31 ± 2.4 | 34 ± 2.6 | 31 ± 1.7 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | 558 ± 21.9 |
| Positive Control ³ | | | 348 ± 34.1 | 2011 ± 47.5 | |
| Positive Control ⁶ | 1304 ± 53.2 | 1433 ± 41.3 | | | |

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Strain: TA98

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|---------------------|
| Vehicle Control ¹ | 30 ± 1.2 |
| 100.0 | |
| 333.0 | |
| 1000.0 | 29 ± 3.2 |
| 3333.0 | 27 ± 4.2 |
| 5000.0 | 26 ± 4.3 |
| 7500.0 | 26 ± 4.1 |
| 10000.0 | 32 ± 4.9 |
| Trial Summary | Negative |
| Positive Control ² | 1056 ± 75.2 |
| Positive Control ³ | |
| 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: Water

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-Phenylenediamine

**** END OF REPORT ****