

Experiment Number: 729319

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Molybdenum trioxide

CAS Number: 1313-27-5

Date Report Requested: 09/12/2018

Time Report Requested: 19:45:10

NTP Study Number:

729319

Study Result:

Negative

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Mutagenicity

G06: Ames Summary Data

Test Compound: Molybdenum trioxide
CAS Number: 1313-27-5

Date Report Requested: 09/12/2018

Time Report Requested: 19:45:10

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------|------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 122 ± 21.0 | 125 ± 8.4 | 148 ± 14.7 | 117 ± 12.7 | 153 ± 6.4 |
| 100.0 | 119 ± 15.2 | 143 ± 2.6 | 127 ± 7.5 | 168 ± 13.6 | 158 ± 7.1 |
| 333.0 | 133 ± 5.0 | 133 ± 10.3 | 139 ± 11.9 | 161 ± 17.4 | 135 ± 10.2 |
| 1000.0 | 120 ± 8.0 | 131 ± 3.5 | 139 ± 2.3 | 161 ± 20.7 | 126 ± 1.5 |
| 3333.0 | 115 ± 15.4 | 116 ± 11.3 | 120 ± 3.7 | 125 ± 10.4 | 135 ± 24.0 |
| 10000.0 | 114 ± 13.6 | 73 ± 4.3 | 96 ± 3.5 | 116 ± 4.4 | 112 ± 8.1 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | 658 ± 30.9 |
| Positive Control ³ | | | 486 ± 16.3 | | |
| Positive Control ⁴ | 409 ± 4.5 | 465 ± 18.0 | | | |
| Positive Control ⁵ | | | | 774 ± 31.2 | |

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Test Compound: Molybdenum trioxide

CAS Number: 1313-27-5

Date Report Requested: 09/12/2018

Time Report Requested: 19:45:10

Strain: TA100

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 152 ± 13.7 |
| 100.0 | 154 ± 14.1 |
| 333.0 | 147 ± 12.0 |
| 1000.0 | 156 ± 1.7 |
| 3333.0 | 142 ± 6.7 |
| 10000.0 | 146 ± 13.3 |
| Trial Summary | Negative |
| Positive Control ² | |
| Positive Control ³ | 958 ± 21.0 |
| Positive Control ⁴ | |
| Positive Control ⁵ | |

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Test Compound: Molybdenum trioxide
CAS Number: 1313-27-5

Date Report Requested: 09/12/2018

Time Report Requested: 19:45:10

Strain: TA1535

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------|------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 18 ± 2.5 | 20 ± 2.6 | 8 ± 0.7 | 8 ± 2.2 | 8 ± 1.2 |
| 33.0 | | 16 ± 0.3 | 10 ± 1.2 | | 9 ± 1.5 |
| 100.0 | 12 ± 2.5 | 18 ± 2.6 | 10 ± 2.0 | 8 ± 1.2 | 10 ± 1.5 |
| 333.0 | 16 ± 0.9 | 16 ± 2.0 | 8 ± 3.2 | 12 ± 2.3 | 7 ± 0.6 |
| 1000.0 | 15 ± 1.8 | 15 ± 1.8 | 9 ± 1.2 | 12 ± 1.2 | 10 ± 3.5 |
| 3333.0 | 13 ± 2.2 | 11 ± 2.2 | 6 ± 0.9 | 9 ± 1.8 | 4 ± 0.6 |
| 10000.0 | 4 ± 1.2 | | | 3 ± 0.0 | |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ³ | | | | | 174 ± 7.7 |
| Positive Control ⁴ | 427 ± 11.8 | 439 ± 8.6 | | | |
| Positive Control ⁵ | | | 102 ± 2.2 | | |
| Positive Control ⁶ | | | | 194 ± 10.4 | |

Experiment Number: 729319

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Molybdenum trioxide
CAS Number: 1313-27-5

Date Report Requested: 09/12/2018

Time Report Requested: 19:45:10

Strain: TA1535

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 11 ± 3.8 |
| 33.0 | |
| 100.0 | 14 ± 0.6 |
| 333.0 | 7 ± 1.5 |
| 1000.0 | 7 ± 0.9 |
| 3333.0 | 4 ± 1.2 |
| 10000.0 | 4 ± 0.9 |
| Trial Summary | Negative |
| Positive Control ³ | |
| Positive Control ⁴ | |
| Positive Control ⁵ | 505 ± 19.3 |
| Positive Control ⁶ | |

Experiment Number: 729319

Test Type: Genetic Toxicology - Bacterial
Mutagenicity**G06: Ames Summary Data**

Test Compound: Molybdenum trioxide

CAS Number: 1313-27-5

Date Report Requested: 09/12/2018

Time Report Requested: 19:45:10

Strain: TA1537

| Dose (ug/Plate) | Without S9 | With 30% Rat S9 | With 30% Hamster S9 | With 30% Hamster S9 |
|-------------------------------|------------|-----------------|---------------------|---------------------|
| Vehicle Control ¹ | 7 ± 1.0 | 11 ± 1.7 | 11 ± 1.3 | 9 ± 0.9 |
| 10.0 | | | | 13 ± 2.3 |
| 33.0 | | | | 11 ± 1.0 |
| 100.0 | 5 ± 2.0 | 12 ± 1.8 | 10 ± 1.5 | 9 ± 3.4 |
| 333.0 | 7 ± 1.7 | 7 ± 0.6 | 9 ± 0.7 | 8 ± 1.8 |
| 1000.0 | 8 ± 1.9 | 6 ± 1.0 | 4 ± 1.2 | 8 ± 0.9 |
| 3333.0 | 5 ± 0.7 | 5 ± 0.7 | 1 ± 0.9 | |
| 10000.0 | 1 ± 0.3 | 1 ± 0.7 | 1 ± 0.6 | |
| Trial Summary | Negative | Negative | Negative | Negative |
| Positive Control ³ | | | 53 ± 2.1 | 46 ± 1.5 |
| Positive Control ⁵ | | 44 ± 6.4 | | |
| Positive Control ⁷ | 214 ± 51.6 | | | |

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Test Type: Genetic Toxicology - Bacterial
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G06: Ames Summary Data

Test Compound: Molybdenum trioxide
CAS Number: 1313-27-5

Date Report Requested: 09/12/2018

Time Report Requested: 19:45:10

Strain: TA97

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 30% Rat S9 |
|-------------------------------|------------|------------|-----------------|-----------------|-----------------|
| Vehicle Control ¹ | 146 ± 4.3 | 138 ± 12.6 | 121 ± 12.7 | 124 ± 14.7 | 207 ± 4.7 |
| 33.0 | | 111 ± 1.0 | 144 ± 5.4 | | 210 ± 5.9 |
| 100.0 | 137 ± 1.5 | 126 ± 6.4 | 156 ± 4.4 | 135 ± 15.5 | 139 ± 70.5 |
| 333.0 | 147 ± 9.2 | 123 ± 10.5 | 149 ± 10.8 | 164 ± 12.9 | 211 ± 2.3 |
| 1000.0 | 123 ± 7.1 | 93 ± 6.3 | 130 ± 17.1 | 113 ± 15.0 | 170 ± 14.0 |
| 3333.0 | 113 ± 8.1 | 5 ± 1.0 | 69 ± 7.1 | 29 ± 4.4 | 41 ± 22.8 |
| 10000.0 | 3 ± 0.9 | | | 7 ± 1.7 | |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | |
| Positive Control ³ | | | 316 ± 2.6 | | |
| Positive Control ⁵ | | | | 405 ± 10.8 | 404 ± 1.7 |
| Positive Control ⁷ | 569 ± 20.9 | 358 ± 11.5 | | | |

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Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Molybdenum trioxide
CAS Number: 1313-27-5

Date Report Requested: 09/12/2018

Time Report Requested: 19:45:10

Strain: TA97

| Dose (ug/Plate) | With 10% Hamster S9 | With 30% Hamster S9 |
|-------------------------------|----------------------------|----------------------------|
| Vehicle Control ¹ | 138 ± 7.4 | 152 ± 21.7 |
| 33.0 | 111 ± 8.7 | |
| 100.0 | 155 ± 2.5 | 165 ± 9.0 |
| 333.0 | 158 ± 4.9 | 168 ± 7.9 |
| 1000.0 | 141 ± 9.7 | 174 ± 16.0 |
| 3333.0 | 55 ± 8.7 | 105 ± 33.7 |
| 10000.0 | | 6 ± 4.3 |
| Trial Summary | Negative | Negative |
| Positive Control ² | 343 ± 12.8 | |
| Positive Control ³ | | 394 ± 12.2 |
| Positive Control ⁵ | | |
| Positive Control ⁷ | | |

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G06: Ames Summary Data

Test Compound: Molybdenum trioxide
CAS Number: 1313-27-5

Date Report Requested: 09/12/2018

Time Report Requested: 19:45:10

Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------|------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 20 ± 1.2 | 20 ± 1.5 | 28 ± 4.0 | 35 ± 1.5 | 24 ± 2.7 |
| 100.0 | 21 ± 2.2 | 19 ± 1.5 | 30 ± 5.8 | 34 ± 1.5 | 35 ± 7.3 |
| 333.0 | 16 ± 2.4 | 14 ± 3.7 | 32 ± 3.5 | 30 ± 4.7 | 33 ± 3.5 |
| 1000.0 | 18 ± 1.3 | 19 ± 1.2 | 25 ± 2.6 | 25 ± 2.7 | 29 ± 4.5 |
| 3333.0 | 16 ± 1.3 | 15 ± 1.5 | 29 ± 4.0 | 26 ± 5.0 | 28 ± 2.1 |
| 10000.0 | 20 ± 2.4 | 10 ± 2.2 | 25 ± 3.5 | 21 ± 3.8 | 29 ± 3.5 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | 434 ± 11.9 |
| Positive Control ³ | | | 280 ± 23.7 | 172 ± 3.8 | |
| Positive Control ⁸ | 644 ± 14.7 | 442 ± 7.2 | | | |

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Time Report Requested: 19:45:10

Strain: TA98

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 27 ± 3.0 |
| 100.0 | 30 ± 1.5 |
| 333.0 | 30 ± 1.7 |
| 1000.0 | 28 ± 0.7 |
| 3333.0 | 18 ± 1.5 |
| 10000.0 | 14 ± 2.9 |
| Trial Summary | Negative |
| Positive Control ² | |
| Positive Control ³ | 509 ± 17.6 |
| 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: Acetone

2: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****