

Experiment Number: 143579

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

G06: Ames Summary Data

Test Compound: **Potassium bromate**

CAS Number: 7758-01-2

Date Report Requested: **09/12/2018**

Time Report Requested: **14:03:25**

NTP Study Number:

143579

Study Result:

Positive

Experiment Number: 143579

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Mutagenicity

G06: Ames Summary Data

Test Compound: Potassium bromate

CAS Number: 7758-01-2

Date Report Requested: 09/12/2018

Time Report Requested: 14:03:25

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | With 30% Rat S9 | With 30% Rat S9 | With 30% Rat S9 |
|-------------------------------|------------|------------|-----------------|-----------------|-----------------|
| Vehicle Control ¹ | 107 ± 6.9 | 145 ± 6.7 | 129 ± 3.2 | 106 ± 15.7 | 150 ± 6.4 |
| 33.0 | 91 ± 1.7 | | 113 ± 2.3 | | |
| 100.0 | 106 ± 8.2 | 114 ± 9.0 | 123 ± 2.9 | | 157 ± 7.6 |
| 333.0 | 120 ± 4.4 | 153 ± 2.1 | 131 ± 5.8 | 127 ± 2.5 | 122 ± 14.7 |
| 1000.0 | 125 ± 1.8 | 148 ± 8.5 | 196 ± 3.2 | 123 ± 8.0 | 180 ± 10.1 |
| 3333.0 | 137 ± 2.0 | 177 ± 10.0 | 224 ± 15.9 | 135 ± 2.5 | 210 ± 2.3 |
| 6667.0 | | 184 ± 7.8 | | 134 ± 10.8 | 182 ± 13.5 |
| 10000.0 | | 189 ± 6.1 | | 55 ± 9.3 | 179 ± 10.7 |
| Trial Summary | Negative | Equivocal | Weakly Positive | Negative | Equivocal |
| Positive Control ² | 391 ± 11.1 | 704 ± 52.1 | | | |
| Positive Control ³ | | | | | |
| Positive Control ⁴ | | | 948 ± 15.0 | 1000 ± 26.8 | 902 ± 38.9 |

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Time Report Requested: 14:03:25

Strain: TA100

| Dose (ug/Plate) | With 30% Hamster S9 | With 30% Hamster S9 | With 30% Hamster S9 |
|-------------------------------|---------------------|---------------------|---------------------|
| Vehicle Control ¹ | 119 ± 3.8 | 144 ± 9.4 | 159 ± 3.5 |
| 33.0 | 103 ± 5.8 | | |
| 100.0 | 135 ± 4.6 | | 158 ± 4.6 |
| 333.0 | 117 ± 4.6 | 152 ± 10.6 | 158 ± 11.2 |
| 1000.0 | 156 ± 9.1 | 126 ± 5.6 | 226 ± 13.5 |
| 3333.0 | 147 ± 7.8 | 169 ± 17.1 | 148 ± 21.5 |
| 6667.0 | | 174 ± 8.3 | 162 ± 11.7 |
| 10000.0 | | 173 ± 13.0 | 175 ± 14.2 |
| Trial Summary | Equivocal | Negative | Equivocal |
| Positive Control ² | | | |
| Positive Control ³ | 674 ± 13.0 | 914 ± 169.1 | 957 ± 66.4 |
| Positive Control ⁴ | | | |

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 Test Compound: Potassium bromate
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Date Report Requested: 09/12/2018
 Time Report Requested: 14:03:25

Strain: TA1535

| Dose (ug/Plate) | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 30% Rat S9 | With 30% Rat S9 |
|-------------------------------|------------|-----------------|-----------------|-----------------|-----------------|
| Vehicle Control ¹ | 27 ± 0.6 | 11 ± 2.6 | 16 ± 3.5 | 14 ± 1.9 | 13 ± 1.8 |
| 100.0 | 18 ± 1.5 | | | | 16 ± 2.3 |
| 333.0 | 24 ± 3.5 | 12 ± 0.3 | 16 ± 2.8 | 16 ± 0.9 | 20 ± 2.7 |
| 1000.0 | 32 ± 1.2 | 17 ± 1.9 | 16 ± 1.2 | 18 ± 3.0 | 24 ± 0.9 |
| 3333.0 | 32 ± 3.7 | 31 ± 0.9 | 19 ± 6.5 | 23 ± 3.1 | 27 ± 1.8 |
| 6667.0 | | 36 ± 4.1 | 25 ± 2.7 | 27 ± 3.1 | |
| 10000.0 | 28 ± 2.9 | 36 ± 3.0 | 21 ± 1.7 | 16 ± 3.5 | 32 ± 2.3 |
| Trial Summary | Negative | Positive | Negative | Equivocal | Positive |
| Positive Control ⁵ | | | | | |
| Positive Control ² | 532 ± 7.7 | | 166 ± 15.0 | | |
| Positive Control ³ | | | | | |
| Positive Control ⁴ | | 282 ± 14.8 | | 142 ± 0.9 | 222 ± 15.6 |

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G06: Ames Summary Data
Test Compound: Potassium bromate
CAS Number: 7758-01-2

Date Report Requested: 09/12/2018
Time Report Requested: 14:03:25

Strain: TA1535

| Dose (ug/Plate) | With 10% Hamster S9 | With 10% Hamster S9 | With 30% Hamster S9 | With 30% Hamster S9 |
|-------------------------------|---------------------|---------------------|---------------------|-----------------------|
| Vehicle Control ¹ | 11 ± 1.8 | 11 ± 2.2 | 13 ± 3.4 | 15 ± 2.0 |
| 100.0 | | | | 18 ± 0.6 |
| 333.0 | 13 ± 2.5 | 17 ± 4.9 | 15 ± 2.4 | 17 ± 0.3 |
| 1000.0 | 16 ± 2.2 | 18 ± 2.6 | 18 ± 1.8 | 22 ± 3.3 |
| 3333.0 | 23 ± 3.8 | 14 ± 2.7 | 27 ± 1.7 | 26 ± 0.9 |
| 6667.0 | 34 ± 1.2 | 26 ± 0.6 | 28 ± 1.9 | |
| 10000.0 | 28 ± 1.5 | 27 ± 0.9 | 13 ± 1.5 | 19 ± 1.2 ^s |
| Trial Summary | Positive | Positive | Positive | Negative |
| Positive Control ⁵ | 50 ± 1.0 | 910 ± 38.4 | | |
| Positive Control ² | | | | |
| Positive Control ³ | | | 190 ± 7.3 | 493 ± 180.8 |
| Positive Control ⁴ | | | | |

Experiment Number: 143579

G06: Ames Summary Data

Date Report Requested: 09/12/2018

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**Test Compound: **Potassium bromate**

Time Report Requested: 14:03:25

CAS Number: 7758-01-2

Strain: TA1537

| Dose (ug/Plate) | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 | With 30% Hamster S9 |
|-------------------------------|-------------------|------------------------|------------------------|----------------------------|----------------------------|
| Vehicle Control ¹ | 17 ± 3.6 | 20 ± 1.2 | 21 ± 4.3 | 16 ± 1.9 | 16 ± 2.9 |
| 333.0 | 24 ± 0.7 | 21 ± 0.9 | 18 ± 3.8 | 17 ± 2.9 | 19 ± 1.0 |
| 1000.0 | 19 ± 2.3 | 23 ± 0.7 | 26 ± 3.2 | 22 ± 4.7 | 21 ± 0.7 |
| 3333.0 | 14 ± 2.3 | 23 ± 3.3 | 18 ± 3.5 | 18 ± 2.6 | 21 ± 2.1 |
| 6667.0 | 13 ± 3.7 | 22 ± 2.8 | 17 ± 4.9 | 12 ± 0.9 | 20 ± 1.2 |
| 10000.0 | 15 ± 1.2 | 16 ± 2.6 | 13 ± 0.7 | 15 ± 1.2 | 13 ± 1.2 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ⁴ | | 940 ± 12.2 | 175 ± 5.4 | 428 ± 30.1 | 128 ± 5.2 |
| Positive Control ⁶ | 77 ± 5.7 | | | | |

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G06: Ames Summary Data

Test Compound: Potassium bromate

CAS Number: 7758-01-2

Date Report Requested: 09/12/2018

Time Report Requested: 14:03:25

Strain: TA97

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 30% Rat S9 |
|--------------------------------------|--------------|-----------------|-------------------------|-----------------|----------------------|
| Vehicle Control ¹ 33.0 | 110 ± 4.4 | 105 ± 2.9 | 182 ± 17.8 | 107 ± 2.1 | 119 ± 5.4 |
| 100.0 | 125 ± 6.7 | 100 ± 4.9 | | | 159 ± 5.7 |
| 333.0 | 151 ± 11.2 | 165 ± 11.0 | 271 ± 10.9 | 118 ± 3.8 | 173 ± 5.9 |
| 1000.0 | 219 ± 14.2 | 223 ± 11.3 | 284 ± 8.3 | 204 ± 25.8 | 216 ± 8.7 |
| 3333.0 | 261 ± 1.0 | 179 ± 7.4 | 358 ± 3.1 | 262 ± 7.8 | 139 ± 25.9 |
| 6667.0 | | 92 ± 10.6 | 331 ± 1.5 | 205 ± 21.1 | |
| 10000.0 | 0 ± 0.0 | | 259 ± 20.3 ^s | 178 ± 16.0 | 0 ± 0.0 ^s |
| Trial Summary | Positive | Weakly Positive | Weakly Positive | Positive | Weakly Positive |
| Positive Control ⁷ | 4230 ± 223.9 | 94 ± 3.3 | | | |
| Positive Control ⁸ | | | | | |
| Positive Control ⁴ | | | 3178 ± 123.0 | 75 ± 3.8 | |
| Positive Control ⁹ | | | | | 724 ± 10.7 |

Experiment Number: 143579

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Potassium bromate

CAS Number: 7758-01-2

Date Report Requested: 09/12/2018

Time Report Requested: 14:03:25

Strain: TA97

| Dose (ug/Plate) | With 30% Rat S9 | With 10% Hamster S9 | With 30% Hamster S9 | With 30% Hamster S9 |
|-------------------------------|-----------------|-------------------------|-----------------------|---------------------|
| Vehicle Control ¹ | 155 ± 5.4 | 233 ± 6.7 | 130 ± 6.0 | 161 ± 14.1 |
| 33.0 | 176 ± 8.6 | | | 171 ± 7.7 |
| 100.0 | 152 ± 4.9 | | 143 ± 8.0 | 183 ± 3.2 |
| 333.0 | 208 ± 7.5 | 256 ± 11.8 | 205 ± 15.0 | 223 ± 13.7 |
| 1000.0 | 270 ± 8.5 | 265 ± 7.5 | 205 ± 7.5 | 171 ± 86.0 |
| 3333.0 | 249 ± 2.3 | 386 ± 16.0 | 201 ± 18.2 | 270 ± 12.5 |
| 6667.0 | | 340 ± 10.7 | | |
| 10000.0 | | 334 ± 26.0 ^s | 57 ± 7.7 ^s | |
| Trial Summary | Weakly Positive | Weakly Positive | Weakly Positive | Weakly Positive |
| Positive Control ⁷ | | | | |
| Positive Control ⁸ | | 804 ± 19.5 | | |
| Positive Control ⁴ | 2102 ± 81.4 | | 1592 ± 34.9 | 1478 ± 6.7 |
| Positive Control ⁹ | | | | |

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CAS Number: 7758-01-2

Date Report Requested: 09/12/2018

Time Report Requested: 14:03:25

Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | With 30% Rat S9 | With 30% Rat S9 | With 30% Hamster S9 |
|--------------------------------|------------|------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 18 ± 2.6 | 26 ± 4.3 | 34 ± 2.1 | 30 ± 2.4 | 27 ± 6.0 |
| 33.0 | 20 ± 3.2 | | 32 ± 4.7 | | 24 ± 2.9 |
| 100.0 | 17 ± 1.2 | 22 ± 5.4 | 32 ± 1.8 | 37 ± 2.7 | 25 ± 2.9 |
| 333.0 | 21 ± 2.0 | 25 ± 0.7 | 33 ± 1.8 | 39 ± 2.0 | 25 ± 3.5 |
| 1000.0 | 22 ± 3.0 | 26 ± 2.5 | 31 ± 2.8 | 33 ± 5.7 | 30 ± 2.1 |
| 3333.0 | 21 ± 1.8 | 32 ± 1.9 | 37 ± 3.5 | 45 ± 1.8 | 29 ± 2.6 |
| 6667.0 | | 36 ± 3.2 | | 41 ± 4.3 | |
| 10000.0 | | 25 ± 0.7 | | 35 ± 0.6 | |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ³ | | | 250 ± 24.0 | 314 ± 24.6 | 258 ± 17.9 |
| Positive Control ¹⁰ | 298 ± 6.0 | 152 ± 18.0 | | | |

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Test Compound: Potassium bromate

CAS Number: 7758-01-2

Date Report Requested: 09/12/2018

Time Report Requested: 14:03:25

Strain: TA98

| Dose (ug/Plate) | With 30% Hamster S9 | With 30% Hamster S9 |
|--------------------------------|----------------------------|----------------------------|
| Vehicle Control ¹ | 30 ± 5.2 | 32 ± 4.0 |
| 33.0 | | |
| 100.0 | 33 ± 4.3 | 42 ± 2.3 |
| 333.0 | 35 ± 5.7 | 41 ± 1.8 |
| 1000.0 | 36 ± 3.0 | 34 ± 2.1 |
| 3333.0 | 40 ± 4.9 | 37 ± 5.0 |
| 6667.0 | 45 ± 4.6 | 28 ± 1.5 |
| 10000.0 | 61 ± 4.6 | 23 ± 3.3 |
| Trial Summary | Equivocal | Negative |
| Positive Control ³ | 410 ± 156.0 | 766 ± 39.1 |
| Positive Control ¹⁰ | | |

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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: 0.5 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 0.4 ug/Plate 2-Aminoanthracene

6: 4.0 ug/Plate 9-Aminoacridine

7: 0.05 ug/Plate Icr-191

8: 0.75 ug/Plate 2-Aminoanthracene

9: 2.5 ug/Plate 2-Aminoanthracene

10: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****