

Experiment Number: 873255

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

G06: Ames Summary Data

Test Compound: **Pentabromodiphenyl Oxide (Technical) (DE 71)**

CAS Number: 32534-81-9

Date Report Requested: 09/16/2018

Time Report Requested: 16:47:06

NTP Study Number:

873255

Study Result:

Negative

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Test Compound: Pentabromodiphenyl Oxide (Technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 09/16/2018

Time Report Requested: 16:47:06

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------|------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 121 ± 6.1 | 113 ± 6.6 | 101 ± 8.2 | 108 ± 4.2 | 116 ± 9.0 |
| 100.0 | 98 ± 4.1 | 107 ± 9.1 | 120 ± 10.4 | 102 ± 5.8 | 108 ± 7.2 |
| 333.0 | 87 ± 5.0 | 104 ± 9.5 | 110 ± 8.7 | 104 ± 6.2 | 100 ± 7.7 |
| 1000.0 | 86 ± 5.6 | 102 ± 11.3 | 111 ± 9.4 | 111 ± 9.0 | 109 ± 13.1 |
| 3333.0 | 98 ± 7.2 | 101 ± 5.3 | 124 ± 7.5 | 98 ± 1.0 | 109 ± 4.1 |
| 10000.0 | 101 ± 14.0 | 99 ± 10.4 | 116 ± 5.2 | 115 ± 13.0 | 123 ± 5.5 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | 481 ± 24.7 | 397 ± 12.2 | | | |
| Positive Control ³ | | | 372 ± 34.0 | 1836 ± 102.5 | 1419 ± 37.9 |

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Strain: TA100

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 116 ± 6.8 |
| 100.0 | 122 ± 18.7 |
| 333.0 | 111 ± 1.5 |
| 1000.0 | 99 ± 4.7 |
| 3333.0 | 108 ± 8.1 |
| 10000.0 | 89 ± 11.3 |
| Trial Summary | Negative |
| Positive Control ² | |
| Positive Control ³ | 1834 ± 91.6 |

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Test Compound: Pentabromodiphenyl Oxide (Technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 09/16/2018

Time Report Requested: 16:47:06

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 ± 1.7 | 30 ± 3.4 | 6 ± 0.9 | 9 ± 1.8 | 10 ± 3.1 |
| 100.0 | 19 ± 1.9 | 24 ± 4.4 | 9 ± 1.8 | 7 ± 0.3 | 8 ± 2.1 |
| 333.0 | 18 ± 1.7 | 25 ± 4.2 | 8 ± 0.6 | 10 ± 1.3 | 8 ± 1.5 |
| 1000.0 | 19 ± 1.2 | 31 ± 3.3 | 6 ± 1.5 | 9 ± 1.5 | 8 ± 0.0 |
| 3333.0 | 25 ± 0.9 | 16 ± 0.7 | 11 ± 3.1 | 8 ± 1.9 | 8 ± 1.3 |
| 10000.0 | 27 ± 4.2 | 14 ± 3.3 | 9 ± 1.3 | 6 ± 1.7 | 7 ± 1.2 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | 427 ± 11.6 | 472 ± 33.9 | | | |
| Positive Control ⁴ | | | 132 ± 3.8 | 489 ± 17.3 | 382 ± 18.9 |

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Date Report Requested: 09/16/2018

Time Report Requested: 16:47:06

Strain: TA1535

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 10 ± 1.5 |
| 100.0 | 7 ± 1.5 |
| 333.0 | 12 ± 1.8 |
| 1000.0 | 13 ± 0.7 |
| 3333.0 | 11 ± 2.1 |
| 10000.0 | 8 ± 2.3 |
| Trial Summary | Negative |
| Positive Control ² | |
| Positive Control ⁴ | 586 ± 12.2 |

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Test Compound: Pentabromodiphenyl Oxide (Technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 09/16/2018

Time Report Requested: 16:47:06

Strain: TA1537

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------|------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 5 ± 1.7 | 8 ± 2.6 | 7 ± 0.9 | 7 ± 0.6 | 5 ± 1.2 |
| 100.0 | 5 ± 0.3 | 4 ± 1.5 | 7 ± 1.9 | 8 ± 1.2 | 7 ± 2.5 |
| 333.0 | 4 ± 0.7 | 6 ± 1.8 | 7 ± 0.9 | 8 ± 1.5 | 7 ± 0.9 |
| 1000.0 | 2 ± 0.3 | 4 ± 0.3 | 9 ± 0.9 | 9 ± 0.3 | 8 ± 0.0 |
| 3333.0 | 9 ± 0.7 | 4 ± 0.7 | 6 ± 0.7 | 8 ± 1.2 | 8 ± 1.2 |
| 10000.0 | 6 ± 2.1 | 8 ± 1.9 | 6 ± 1.9 | 4 ± 0.3 | 5 ± 0.9 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ⁴ | | | 123 ± 3.9 | 251 ± 20.2 | 519 ± 11.2 |
| Positive Control ⁵ | 222 ± 11.1 | 283 ± 42.9 | | | |

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CAS Number: 32534-81-9

Date Report Requested: 09/16/2018

Time Report Requested: 16:47:06

Strain: TA1537

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 7 ± 1.0 |
| 100.0 | 9 ± 2.1 |
| 333.0 | 10 ± 1.2 |
| 1000.0 | 9 ± 0.9 |
| 3333.0 | 8 ± 1.2 |
| 10000.0 | 7 ± 0.9 |
| Trial Summary | Negative |
| Positive Control ⁴ | 268 ± 14.4 |
| Positive Control ⁵ | |

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G06: Ames Summary Data

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Mutagenicity**Test Compound: **Pentabromodiphenyl Oxide (Technical) (DE 71)**

Time Report Requested: 16:47:06

CAS Number: 32534-81-9

Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-------------------|-------------------|------------------------|------------------------|----------------------------|
| Vehicle Control ¹ | 15 ± 1.2 | 21 ± 3.1 | 25 ± 3.5 | 28 ± 5.3 | 33 ± 4.7 |
| 100.0 | 16 ± 1.2 | 19 ± 2.9 | 33 ± 2.6 | 29 ± 4.6 | 36 ± 3.7 |
| 333.0 | 15 ± 1.8 | 20 ± 5.0 | 23 ± 1.2 | 24 ± 4.2 | 33 ± 3.0 |
| 1000.0 | 13 ± 0.7 | 18 ± 1.5 | 24 ± 4.3 | 31 ± 2.3 | 30 ± 3.5 |
| 3333.0 | 18 ± 1.7 | 18 ± 3.8 | 24 ± 1.3 | 26 ± 1.9 | 30 ± 2.5 |
| 10000.0 | 25 ± 4.6 | 17 ± 2.8 | 21 ± 0.9 | 28 ± 4.8 | 21 ± 2.6 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ³ | | | 418 ± 14.2 | 1522 ± 82.5 | 1278 ± 62.6 |
| Positive Control ⁶ | 620 ± 54.5 | 378 ± 11.6 | | | |

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Test Compound: Pentabromodiphenyl Oxide (Technical) (DE 71)
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Date Report Requested: 09/16/2018

Time Report Requested: 16:47:06

Strain: TA98

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 38 ± 2.7 |
| 100.0 | 35 ± 2.5 |
| 333.0 | 35 ± 2.5 |
| 1000.0 | 30 ± 1.3 |
| 3333.0 | 28 ± 4.9 |
| 10000.0 | 32 ± 2.0 |
| Trial Summary | Negative |
| Positive Control ³ | 1551 ± 1.5 |
| 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 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

**** END OF REPORT ****