

Experiment Number: 740508

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: tert-Butylphenyl Diphenyl Phosphate

CAS Number: 56803-37-3

Date Report Requested: 09/17/2018

Time Report Requested: 05:50:49

**NTP Study Number:**

740508

**Study Result:**

Negative

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	127 ± 4.7	87 ± 3.5	110 ± 5.3	68 ± 7.3	94 ± 3.3
100.0	128 ± 4.6	78 ± 9.7	110 ± 9.4	82 ± 6.1	109 ± 8.0
333.0	127 ± 3.8	73 ± 3.2	99 ± 3.6	82 ± 2.7	112 ± 13.4
1000.0	124 ± 3.2	96 ± 5.5	96 ± 2.7	75 ± 4.5	108 ± 4.6
3333.0	115 ± 10.3	72 ± 3.2	113 ± 6.0	61 ± 4.4	122 ± 9.4
10000.0	140 ± 4.8	112 ± 17.4 <sup>p</sup>	97 ± 4.3	83 ± 4.3 <sup>p</sup>	111 ± 9.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1218 ± 51.7
Positive Control <sup>3</sup>			1350 ± 18.3	1783 ± 44.9	
Positive Control <sup>4</sup>	1271 ± 10.2	980 ± 49.3			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	68 ± 0.9
100.0	60 ± 1.7
333.0	82 ± 10.4
1000.0	82 ± 2.1
3333.0	77 ± 6.4
10000.0	60 ± 2.3 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	1648 ± 134.2
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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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 <sup>1</sup>	36 ± 2.3	17 ± 1.5	10 ± 0.9	6 ± 0.9	13 ± 0.3
100.0	40 ± 4.5	31 ± 3.1	10 ± 0.7	10 ± 1.5	10 ± 0.6
333.0	38 ± 2.0	26 ± 1.9	14 ± 2.8	9 ± 1.5	12 ± 1.0
1000.0	44 ± 4.6	20 ± 3.8	11 ± 1.5	5 ± 0.9	15 ± 3.7
3333.0	36 ± 3.5	21 ± 1.7	6 ± 1.7	4 ± 1.2	10 ± 0.9
10000.0	31 ± 1.5	21 ± 1.8 <sup>p</sup>	11 ± 2.1	8 ± 1.3 <sup>p</sup>	8 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					149 ± 8.4
Positive Control <sup>3</sup>			163 ± 7.3	140 ± 9.0	
Positive Control <sup>4</sup>	1048 ± 22.4	775 ± 52.7			

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	11 ± 3.2
100.0	8 ± 1.5
333.0	8 ± 0.7
1000.0	7 ± 1.2
3333.0	6 ± 0.7
10000.0	9 ± 1.2 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	184 ± 11.5
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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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 <sup>1</sup>	9 ± 1.7	4 ± 0.6	10 ± 1.9	5 ± 0.9	13 ± 0.6
100.0	8 ± 1.3	3 ± 1.2	10 ± 1.5	5 ± 1.2	11 ± 1.5
333.0	8 ± 1.2	3 ± 0.3	9 ± 1.0	4 ± 1.0	12 ± 2.1
1000.0	6 ± 1.5	2 ± 1.0	9 ± 2.3	3 ± 1.5	7 ± 2.6
3333.0	7 ± 0.3	5 ± 0.6	7 ± 0.6	4 ± 0.9	6 ± 1.9
10000.0	8 ± 1.2	4 ± 1.2 <sup>p</sup>	11 ± 2.0	5 ± 2.1 <sup>p</sup>	10 ± 2.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					112 ± 5.9
Positive Control <sup>3</sup>			119 ± 9.7	221 ± 7.5	
Positive Control <sup>5</sup>	558 ± 37.2	845 ± 60.9			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	3 ± 1.2
100.0	6 ± 0.3
333.0	6 ± 0.3
1000.0	3 ± 0.6
3333.0	6 ± 0.9
10000.0	5 ± 1.2 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	148 ± 3.5
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	15 ± 3.6	12 ± 2.3	32 ± 5.3	19 ± 1.5	29 ± 4.0
100.0	16 ± 1.3	14 ± 3.2	31 ± 0.7	20 ± 1.2	25 ± 1.8
333.0	12 ± 2.4	14 ± 1.8	28 ± 2.3	20 ± 0.3	25 ± 4.0
1000.0	16 ± 1.2	8 ± 1.5	30 ± 1.5	21 ± 1.0	24 ± 4.2
3333.0	13 ± 0.6	12 ± 0.6	27 ± 1.8	15 ± 1.2	25 ± 1.2
10000.0	14 ± 1.8	14 ± 3.8 <sup>p</sup>	25 ± 1.8	15 ± 0.9 <sup>p</sup>	27 ± 2.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1000 ± 16.2
Positive Control <sup>3</sup>			978 ± 36.3	1753 ± 55.0	
Positive Control <sup>6</sup>	1338 ± 53.3	1256 ± 40.1			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	25 ± 1.7
100.0	21 ± 2.2
333.0	19 ± 1.0
1000.0	20 ± 4.0
3333.0	18 ± 2.7
10000.0	20 ± 0.9 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	1621 ± 120.7
Positive Control <sup>3</sup>	
Positive Control <sup>6</sup>	

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**LEGEND**

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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: 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

p: Precipitate

**\*\* END OF REPORT \*\***