

Experiment Number: 644636

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 2-Ethylhexyl Diphenyl Phosphate

CAS Number: 1241-94-7

Date Report Requested: 09/11/2018

Time Report Requested: 05:02:33

**NTP Study Number:**

644636

**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>	111 ± 1.5	122 ± 3.0	128 ± 9.4	129 ± 0.9	125 ± 7.0
100.0	95 ± 4.5	119 ± 6.8	91 ± 7.8	112 ± 6.9	92 ± 2.3
333.0	106 ± 15.4	113 ± 1.9	97 ± 7.2	116 ± 7.4	98 ± 5.2
1000.0	88 ± 1.3	123 ± 7.5	110 ± 1.5	101 ± 8.7	88 ± 5.5
3333.0	83 ± 2.3 <sup>p</sup>	122 ± 5.5 <sup>p</sup>	106 ± 7.4 <sup>p</sup>	104 ± 4.1 <sup>p</sup>	79 ± 2.3 <sup>p</sup>
10000.0	103 ± 13.0 <sup>p</sup>	101 ± 6.1 <sup>p</sup>	102 ± 8.7 <sup>p</sup>	124 ± 1.8 <sup>p</sup>	86 ± 3.8 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	448 ± 29.5	318 ± 8.5			
Positive Control <sup>3</sup>			535 ± 15.9	568 ± 4.6	1000 ± 38.4

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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>	127 ± 9.5
100.0	123 ± 7.3
333.0	131 ± 1.5
1000.0	119 ± 8.7
3333.0	104 ± 2.6 <sup>P</sup>
10000.0	125 ± 8.4 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	1240 ± 26.7

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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 ± 2.8	24 ± 3.0	17 ± 0.9	8 ± 1.9	19 ± 2.3
100.0	22 ± 3.5	20 ± 3.5	8 ± 1.0	7 ± 0.3	9 ± 1.7
333.0	22 ± 3.1	20 ± 0.9	9 ± 2.3	13 ± 2.3	9 ± 1.3
1000.0	20 ± 2.2	13 ± 2.2	12 ± 2.5	10 ± 2.7	9 ± 1.5
3333.0	23 ± 2.3 <sup>p</sup>	14 ± 0.6 <sup>p</sup>	13 ± 3.0 <sup>p</sup>	7 ± 0.3 <sup>p</sup>	9 ± 1.5 <sup>p</sup>
10000.0	22 ± 2.5 <sup>p</sup>	22 ± 1.5 <sup>p</sup>	16 ± 1.7 <sup>p</sup>	15 ± 1.5 <sup>p</sup>	10 ± 2.4 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	406 ± 15.3	307 ± 9.6			
Positive Control <sup>4</sup>			286 ± 12.1	241 ± 9.9	359 ± 12.0

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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>	16 ± 1.3
100.0	12 ± 3.8
333.0	9 ± 2.7
1000.0	8 ± 2.6
3333.0	10 ± 4.2 <sup>p</sup>
10000.0	9 ± 2.8 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	329 ± 35.0

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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>	6 ± 1.5	4 ± 1.2	14 ± 2.0	5 ± 2.3	7 ± 1.9
100.0	7 ± 0.3	7 ± 2.5	6 ± 0.9	4 ± 2.4	6 ± 1.2
333.0	5 ± 0.6	3 ± 1.2	4 ± 1.0	6 ± 1.5	2 ± 1.3
1000.0	4 ± 2.0	5 ± 1.7	8 ± 2.3	6 ± 1.2	6 ± 1.7
3333.0	7 ± 3.2 <sup>p</sup>	4 ± 1.2 <sup>p</sup>	11 ± 1.7 <sup>p</sup>	5 ± 0.6 <sup>p</sup>	7 ± 1.9 <sup>p</sup>
10000.0	5 ± 1.5 <sup>p</sup>	6 ± 2.0 <sup>p</sup>	13 ± 1.0 <sup>p</sup>	6 ± 1.7 <sup>p</sup>	9 ± 1.9 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			166 ± 6.7	161 ± 0.3	497 ± 15.6
Positive Control <sup>5</sup>	318 ± 30.9	97 ± 14.3			

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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>	8 ± 3.1
100.0	8 ± 1.9
333.0	6 ± 1.2
1000.0	5 ± 1.5
3333.0	8 ± 2.8 <sup>p</sup>
10000.0	7 ± 1.2 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	340 ± 8.3
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>	18 ± 1.7	11 ± 3.5	39 ± 4.3	34 ± 2.5	37 ± 3.2
100.0	11 ± 3.3	17 ± 4.0	27 ± 4.5	35 ± 4.3	25 ± 3.0
333.0	10 ± 2.4	16 ± 3.8	19 ± 1.2	34 ± 2.7	23 ± 2.6
1000.0	13 ± 2.4	12 ± 1.7	23 ± 6.3	38 ± 2.3	19 ± 3.5
3333.0	10 ± 1.0 <sup>p</sup>	17 ± 1.5 <sup>p</sup>	26 ± 1.3 <sup>p</sup>	34 ± 2.3 <sup>p</sup>	22 ± 4.7 <sup>p</sup>
10000.0	13 ± 3.2 <sup>p</sup>	10 ± 2.2 <sup>p</sup>	27 ± 4.9 <sup>p</sup>	35 ± 3.6 <sup>p</sup>	24 ± 2.6 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			364 ± 14.5	409 ± 4.6	1026 ± 35.5
Positive Control <sup>6</sup>	711 ± 7.8	504 ± 27.8			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	28 ± 1.2
100.0	32 ± 4.2
333.0	24 ± 2.0
1000.0	25 ± 3.6
3333.0	29 ± 5.7 <sup>P</sup>
10000.0	32 ± 3.5 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	927 ± 10.3
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: 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

p: Precipitate

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