

Experiment Number: 990766

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Dimethylphosphate

CAS Number: 813-78-5

Date Report Requested: 09/18/2018

Time Report Requested: 07:44:37

**NTP Study Number:**

990766

**Study Result:**

Negative

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	117 ± 8.8	125 ± 6.6	138 ± 8.5	140 ± 2.2	139 ± 5.2
33.0	123 ± 11.7	129 ± 1.2	132 ± 20.0		144 ± 12.3
100.0	124 ± 10.3	118 ± 5.0	142 ± 10.4	157 ± 7.4	145 ± 5.6
333.0	117 ± 5.2	129 ± 10.4	142 ± 5.8	152 ± 12.1	143 ± 16.1
1000.0	122 ± 6.6	120 ± 11.9	142 ± 5.6	154 ± 1.3	127 ± 7.2
3333.0	104 ± 17.3	121 ± 4.4	141 ± 1.0	143 ± 6.0	130 ± 8.0
10000.0				47 ± 20.5 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					759 ± 34.6
Positive Control <sup>3</sup>			505 ± 48.4		
Positive Control <sup>4</sup>				430 ± 24.3	
Positive Control <sup>5</sup>	647 ± 32.9	695 ± 36.1			

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	120 ± 4.7
33.0	
100.0	113 ± 0.3
333.0	123 ± 10.5
1000.0	118 ± 8.8
3333.0	126 ± 10.7
10000.0	63 ± 1.2 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	580 ± 21.1
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	9 ± 1.2	9 ± 0.3	13 ± 3.5	10 ± 1.2	10 ± 0.9
33.0	11 ± 0.6	11 ± 2.8	13 ± 2.0	11 ± 2.0	8 ± 2.1
100.0	10 ± 1.2	12 ± 1.5	12 ± 2.5	14 ± 2.2	12 ± 2.3
333.0	7 ± 0.6	9 ± 3.2	9 ± 2.9	9 ± 0.9	10 ± 0.9
1000.0	10 ± 2.2	8 ± 1.5	8 ± 2.5	9 ± 0.6	8 ± 1.7
3333.0	9 ± 1.2	8 ± 1.5	7 ± 0.3	11 ± 1.7	11 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					120 ± 9.0
Positive Control <sup>4</sup>			69 ± 2.5		
Positive Control <sup>6</sup>				82 ± 4.3	
Positive Control <sup>5</sup>	271 ± 17.8	595 ± 21.4			

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**G06: Ames Summary Data**

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	11 ± 1.0
33.0	12 ± 2.0
100.0	11 ± 0.7
333.0	10 ± 1.7
1000.0	6 ± 1.7
3333.0	11 ± 0.3
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	221 ± 13.4
Positive Control <sup>6</sup>	
Positive Control <sup>5</sup>	

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	216 ± 8.7	191 ± 17.7	161 ± 7.0	182 ± 6.7	222 ± 8.6
10.0			171 ± 4.4	194 ± 8.7	
33.0	216 ± 8.8	195 ± 15.2	180 ± 5.5	213 ± 1.5	218 ± 5.0
100.0	220 ± 8.2	209 ± 9.2	178 ± 4.6	204 ± 15.9	240 ± 8.0
333.0	216 ± 10.2	201 ± 4.4	170 ± 6.9	191 ± 6.9	251 ± 21.4
1000.0	214 ± 2.6	194 ± 10.4	171 ± 4.2	197 ± 15.6	246 ± 6.4
3333.0	202 ± 12.3	176 ± 26.9			183 ± 23.2
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>			352 ± 15.1	328 ± 10.1	
Positive Control <sup>4</sup>					364 ± 15.9
Positive Control <sup>7</sup>	379 ± 16.7	595 ± 9.8			

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 30% Rat S9</b>	<b>With 10% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	201 ± 6.9	189 ± 7.5	212 ± 10.6
10.0	208 ± 6.9		
33.0	211 ± 6.8	205 ± 4.9	207 ± 0.3
100.0	220 ± 7.3	217 ± 8.0	214 ± 12.0
333.0	219 ± 15.3	206 ± 3.8	216 ± 7.8
1000.0	192 ± 10.9	209 ± 12.5	194 ± 13.2
3333.0		209 ± 4.9	178 ± 33.4
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>		501 ± 27.6	
Positive Control <sup>3</sup>			366 ± 14.3
Positive Control <sup>4</sup>	329 ± 22.2		
Positive Control <sup>7</sup>			

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	22 ± 2.8	22 ± 1.5	28 ± 4.2	26 ± 4.5	18 ± 2.1
33.0	29 ± 4.4	24 ± 3.5	22 ± 2.1		21 ± 2.6
100.0	25 ± 0.3	14 ± 3.2	25 ± 0.6	23 ± 2.9	21 ± 2.3
333.0	21 ± 5.5	16 ± 1.2	21 ± 3.8	22 ± 3.2	20 ± 5.2
1000.0	24 ± 4.2	18 ± 4.0	22 ± 3.5	27 ± 0.3	17 ± 1.2
3333.0	21 ± 5.7	20 ± 0.6	17 ± 1.0	22 ± 2.4	21 ± 2.2
10000.0				5 ± 2.6 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					626 ± 42.2
Positive Control <sup>3</sup>			329 ± 27.2	104 ± 11.6	
Positive Control <sup>8</sup>	495 ± 31.1	483 ± 23.5			



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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	28 ± 2.4
33.0	
100.0	23 ± 1.9
333.0	19 ± 1.2
1000.0	21 ± 2.3
3333.0	20 ± 2.3
10000.0	8 ± 0.3 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	414 ± 21.4
Positive Control <sup>8</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: Water

2: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate Sodium Azide

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

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

s: Slight Toxicity

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