

Experiment Number: 965447

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

**G06: Ames Summary Data**

Test Compound: **Diethyl dibutylphosphoramidate**

CAS Number: **67828-17-5**

Date Report Requested: **09/17/2018**

Time Report Requested: **22:08:30**

**NTP Study Number:**

965447

**Study Result:**

Equivocal

Experiment Number: 965447

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## G06: Ames Summary Data

Test Compound: Diethyl dibutylphosphoramidate

CAS Number: 67828-17-5

Date Report Requested: 09/17/2018

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	115 ± 1.8	132 ± 6.7	132 ± 2.7	134 ± 6.7	133 ± 13.6
10.0	114 ± 1.9	131 ± 3.5	137 ± 6.1		
33.0	116 ± 4.5	142 ± 8.8	136 ± 6.4		
100.0	115 ± 4.4	129 ± 9.0	126 ± 0.0	130 ± 3.3	158 ± 12.0
333.0	125 ± 5.9	132 ± 3.7	135 ± 5.8	125 ± 6.1	141 ± 26.5
1000.0	103 ± 6.7	101 ± 7.3	112 ± 10.9	122 ± 7.0	137 ± 11.3
3333.0				131 ± 14.2	139 ± 6.5
6666.0				85 ± 11.3 <sup>s</sup>	
10000.0					68 ± 27.2 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>				448 ± 39.9	
Positive Control <sup>4</sup>					341 ± 20.3
Positive Control <sup>5</sup>	861 ± 23.5	879 ± 17.7	902 ± 47.9		

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	132 ± 7.8	152 ± 6.0
10.0		
33.0		
100.0	123 ± 8.3	151 ± 13.5
333.0	127 ± 6.4	165 ± 11.9
1000.0	145 ± 6.4	132 ± 5.5
3333.0	123 ± 1.5	150 ± 17.4
6666.0	93 ± 3.8	
10000.0		59 ± 30.3 <sup>s</sup>
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>	572 ± 41.4	584 ± 32.2
Positive Control <sup>3</sup>		
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 ± 2.1	10 ± 0.7	11 ± 2.2	13 ± 2.6	14 ± 2.8
10.0	11 ± 2.7	12 ± 1.2			
33.0	8 ± 2.2	13 ± 0.7			
100.0	8 ± 1.0	9 ± 0.9	14 ± 2.9	15 ± 3.5	12 ± 1.5
333.0	10 ± 2.0	13 ± 2.1	8 ± 1.0	14 ± 0.7	16 ± 1.0
1000.0	9 ± 1.5	10 ± 1.5	9 ± 0.3	18 ± 1.3	17 ± 1.2
3333.0			9 ± 0.9	15 ± 0.7	10 ± 2.2
6666.0			5 ± 0.9 <sup>s</sup>		7 ± 0.7 <sup>s</sup>
10000.0				6 ± 1.3 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					140 ± 13.7
Positive Control <sup>6</sup>			102 ± 5.3		
Positive Control <sup>5</sup>	851 ± 15.9	810 ± 3.2			
Positive Control <sup>7</sup>				230 ± 9.5	

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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>	17 ± 2.6
10.0	
33.0	
100.0	24 ± 3.2
333.0	22 ± 1.3
1000.0	30 ± 1.5
3333.0	19 ± 3.7
6666.0	
10000.0	12 ± 5.0 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>6</sup>	557 ± 45.4
Positive Control <sup>5</sup>	
Positive Control <sup>7</sup>	

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**Strain: TA1538**

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<b>Dose (ug/Plate)</b>	<b>With 5% Hamster S9</b>	<b>With 10% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	15 ± 0.9	16 ± 1.0	14 ± 1.0
333.0	14 ± 0.3	18 ± 0.5	16 ± 0.9
666.0	15 ± 1.2	15 ± 2.2	16 ± 0.9
1000.0	13 ± 0.6	18 ± 0.7	15 ± 0.6
1666.0	13 ± 0.3	14 ± 0.3	12 ± 0.3
3333.0	16 ± 2.6	16 ± 1.3	15 ± 2.0
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>	197 ± 14.1	201 ± 12.5	
Positive Control <sup>4</sup>			105 ± 5.4

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	122 ± 13.9	128 ± 4.7	118 ± 11.9	175 ± 6.4	109 ± 7.7
10.0	121 ± 10.0	111 ± 2.7			
33.0	143 ± 4.4	111 ± 4.7			
100.0	131 ± 2.4	131 ± 9.5	119 ± 16.8	179 ± 6.6	115 ± 14.2
333.0	106 ± 3.3	130 ± 7.0	136 ± 11.6	160 ± 5.5	121 ± 17.9
1000.0	67 ± 6.4 <sup>s</sup>	103 ± 5.2	128 ± 8.9	167 ± 7.7	124 ± 20.5
3333.0			112 ± 10.0	159 ± 4.2	103 ± 0.9
6666.0			90 ± 17.2 <sup>s</sup>		30 ± 16.3 <sup>s</sup>
10000.0				97 ± 15.7	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					389 ± 10.9
Positive Control <sup>3</sup>			358 ± 18.2		
Positive Control <sup>6</sup>				777 ± 21.6	
Positive Control <sup>8</sup>	349 ± 12.4	354 ± 10.6			

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

**G06: Ames Summary Data**

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	107 ± 2.0
10.0	
33.0	
100.0	118 ± 5.0
333.0	130 ± 4.1
1000.0	127 ± 8.4
3333.0	152 ± 6.1
6666.0	
10000.0	89 ± 5.5
Trial Summary	Equivocal
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	945 ± 16.8
Positive Control <sup>6</sup>	
Positive Control <sup>8</sup>	



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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	13 ± 2.1	17 ± 2.2	16 ± 0.6	24 ± 2.3	25 ± 2.0
10.0	15 ± 2.8	15 ± 0.7	15 ± 2.5		
33.0	12 ± 0.9	17 ± 2.5	19 ± 1.2		
100.0	17 ± 1.2	16 ± 2.1	18 ± 0.9	20 ± 3.0	17 ± 3.4
333.0	18 ± 1.5	15 ± 1.7	17 ± 0.7	20 ± 4.0	17 ± 2.0
666.0					
1000.0	9 ± 1.9	11 ± 1.9	12 ± 2.0	14 ± 1.2	18 ± 2.7
1666.0					
3333.0				21 ± 3.4	19 ± 3.1
6666.0				11 ± 3.5 <sup>s</sup>	
10000.0					17 ± 1.3 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>9</sup>					
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>				94 ± 3.2	
Positive Control <sup>4</sup>					142 ± 13.8
Positive Control <sup>10</sup>	249 ± 19.1	287 ± 34.6	275 ± 13.4		

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## Strain: TA98

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	26 ± 0.9	23 ± 0.3	15 ± 1.5	19 ± 2.4	22 ± 1.9
10.0					
33.0					
100.0			22 ± 3.6	17 ± 3.4	
333.0	24 ± 3.8	30 ± 3.3	15 ± 1.2	19 ± 2.8	21 ± 2.7
666.0	18 ± 1.0	24 ± 0.3			
1000.0	25 ± 1.0	20 ± 0.3	14 ± 1.5	24 ± 2.6	23 ± 3.8
1666.0	29 ± 1.9	26 ± 0.6			21 ± 4.0
3333.0	32 ± 7.5	25 ± 1.2	23 ± 2.4	42 ± 5.2	42 ± 1.8
6666.0			8 ± 3.2 <sup>s</sup>		2 ± 1.7 <sup>x</sup>
10000.0				43 ± 26.0 <sup>s</sup>	Toxic
Trial Summary	Negative	Negative	Negative	Positive	Equivocal
Positive Control <sup>9</sup>	120 ± 10.8	86 ± 4.3			
Positive Control <sup>2</sup>			149 ± 7.4	165 ± 15.7	462 ± 23.0
Positive Control <sup>3</sup>					
Positive Control <sup>4</sup>					
Positive Control <sup>10</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 2-Aminoanthracene

3: 2.0 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: 10.0 ug/Plate 2-Aminoanthracene

8: 50.0 ug/Plate 9-Aminoacridine

9: 0.5 ug/Plate 2-Aminoanthracene

10: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

x: Slight Toxicity and Precipitate

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