

Experiment Number: 871522

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

**G06: Ames Summary Data**

Test Compound: **Tributyl phosphate**

CAS Number: **126-73-8**

Date Report Requested: **09/16/2018**

Time Report Requested: **16:32:13**

**NTP Study Number:**

871522

**Study Result:**

Negative

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## G06: Ames Summary Data

Test Compound: Tributyl phosphate  
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Date Report Requested: 09/16/2018

Time Report Requested: 16:32:13

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	137 ± 5.4	101 ± 2.6	143 ± 9.0	112 ± 11.0	138 ± 4.3
3.0	134 ± 6.5	113 ± 7.0			
10.0	139 ± 5.0	93 ± 9.9		103 ± 6.5	
33.0	139 ± 7.5	93 ± 3.8	128 ± 6.8	106 ± 11.8	151 ± 12.1
100.0	144 ± 9.3	95 ± 3.7	98 ± 9.0	101 ± 5.7	160 ± 8.4
166.0	130 ± 12.0	73 ± 9.6			
333.0			90 ± 6.9	87 ± 5.7	158 ± 4.8
666.0				49 ± 3.2 <sup>s</sup>	
1000.0			21 ± 20.7 <sup>s</sup>		155 ± 2.1
1666.0			0 ± 0.0 <sup>s</sup>		
3333.0					50 ± 11.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>			600 ± 41.3	576 ± 22.6	
Positive Control <sup>4</sup>	429 ± 7.8	429 ± 3.8			
Positive Control <sup>5</sup>					244 ± 6.7

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## Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	103 ± 0.7	91 ± 3.8	158 ± 5.9
3.0			
10.0		98 ± 6.2	
33.0	99 ± 7.9	85 ± 2.3	149 ± 6.1
100.0	93 ± 4.4	83 ± 1.5	147 ± 3.4
166.0			
333.0	90 ± 6.1	100 ± 9.4	156 ± 1.7
666.0		70 ± 11.9 <sup>s</sup>	
1000.0	6 ± 3.8 <sup>s</sup>		132 ± 16.0
1666.0	14 ± 14.3 <sup>s</sup>		
3333.0			19 ± 15.7 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>	670 ± 6.2	1109 ± 12.2	
Positive Control <sup>3</sup>			462 ± 31.2
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 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	14 ± 2.8	14 ± 1.8	13 ± 3.6	9 ± 2.6	13 ± 0.9
3.0	12 ± 1.5	13 ± 1.5			
10.0	11 ± 2.0	14 ± 3.1		9 ± 2.3	
33.0	11 ± 1.0	14 ± 1.2	8 ± 0.9	7 ± 0.7	13 ± 1.5
100.0	14 ± 0.7	15 ± 4.7	7 ± 0.6	8 ± 1.5	17 ± 4.4
166.0	12 ± 2.3	14 ± 1.5			
333.0			10 ± 2.5	8 ± 2.9	14 ± 1.8
666.0				4 ± 1.5 <sup>s</sup>	
1000.0			1 ± 0.3 <sup>s</sup>		8 ± 1.2
1666.0			1 ± 1.0 <sup>s</sup>		
3333.0					9 ± 0.7 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					
Positive Control <sup>4</sup>	221 ± 3.1	204 ± 5.6			
Positive Control <sup>5</sup>			121 ± 9.6	72 ± 3.2	
Positive Control <sup>6</sup>					88 ± 6.2

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## Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	8 ± 1.2	9 ± 0.9	9 ± 1.9
3.0			
10.0		9 ± 2.3	
33.0	7 ± 0.3	8 ± 1.8	7 ± 0.6
100.0	8 ± 1.9	5 ± 1.3	10 ± 1.9
166.0			
333.0	5 ± 1.2	6 ± 0.3	8 ± 1.9
666.0		7 ± 1.5 <sup>s</sup>	
1000.0	1 ± 0.9 <sup>s</sup>		7 ± 0.7
1666.0	3 ± 2.2 <sup>s</sup>		
3333.0			9 ± 1.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>3</sup>	195 ± 4.1	89 ± 5.5	
Positive Control <sup>4</sup>			
Positive Control <sup>5</sup>			320 ± 41.3
Positive Control <sup>6</sup>			

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	164 ± 18.4	143 ± 9.5	182 ± 14.1	171 ± 10.2	168 ± 5.0
3.0	128 ± 0.9	144 ± 15.1			
10.0	148 ± 6.3	161 ± 7.8		184 ± 13.6	
33.0	165 ± 3.1	169 ± 13.4	193 ± 5.2	190 ± 3.8	167 ± 18.2
100.0	130 ± 4.3	154 ± 4.2	176 ± 10.7	147 ± 0.9	174 ± 18.8
166.0	104 ± 3.8	142 ± 12.5			
333.0			134 ± 9.9	149 ± 4.6	142 ± 16.3
666.0				142 ± 2.2 <sup>s</sup>	
1000.0			88 ± 9.1 <sup>s</sup>		138 ± 7.8
1666.0			112 ± 22.8 <sup>s</sup>		
3333.0					80 ± 6.4 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>			400 ± 26.1	419 ± 3.2	
Positive Control <sup>5</sup>					431 ± 13.0
Positive Control <sup>7</sup>	439 ± 30.8	437 ± 6.8			

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## Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	167 ± 12.2	181 ± 3.9	134 ± 4.6
3.0			
10.0		168 ± 2.8	
33.0	168 ± 4.4	171 ± 0.7	123 ± 4.1
100.0	172 ± 9.3	174 ± 7.7	177 ± 12.0
166.0			
333.0	162 ± 8.2	170 ± 9.7	174 ± 1.9
666.0		143 ± 4.0	
1000.0	126 ± 8.7 <sup>s</sup>		149 ± 10.7
1666.0	106 ± 11.9 <sup>s</sup>		
3333.0			96 ± 12.6 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>	505 ± 29.9	964 ± 10.7	
Positive Control <sup>3</sup>			332 ± 8.1
Positive Control <sup>5</sup>			
Positive Control <sup>7</sup>			

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	19 ± 0.9	20 ± 0.7	26 ± 1.5	25 ± 2.3	38 ± 6.2
3.0	16 ± 1.5	12 ± 0.7			
10.0	16 ± 1.2	13 ± 1.5		25 ± 4.0	
33.0	23 ± 1.7	17 ± 0.9	18 ± 2.7	20 ± 3.2	35 ± 2.7
100.0	22 ± 2.7	16 ± 2.6	24 ± 3.0	16 ± 0.3	27 ± 3.3
166.0	16 ± 1.3	16 ± 1.3			
333.0			20 ± 2.3	18 ± 1.3	32 ± 3.1
666.0				14 ± 1.2 <sup>s</sup>	
1000.0			15 ± 0.9 <sup>s</sup>		27 ± 3.5
1666.0			12 ± 3.4 <sup>s</sup>		
3333.0					20 ± 4.2 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>			369 ± 37.8	354 ± 38.5	104 ± 5.9
Positive Control <sup>8</sup>	372 ± 12.5	540 ± 36.8			



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## Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	29 ± 0.7	25 ± 2.3	30 ± 1.7
3.0			
10.0		26 ± 1.5	
33.0	30 ± 0.6	28 ± 2.5	29 ± 2.5
100.0	23 ± 1.7	25 ± 1.8	35 ± 8.0
166.0			
333.0	29 ± 2.9	25 ± 2.3	15 ± 0.3
666.0		27 ± 4.3 <sup>s</sup>	
1000.0	12 ± 6.9 <sup>s</sup>		16 ± 2.7
1666.0	12 ± 1.7 <sup>s</sup>		
3333.0			20 ± 2.9 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>	469 ± 41.0	1116 ± 43.5	
Positive Control <sup>3</sup>			495 ± 21.7
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: Dimethyl Sulfoxide

2: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

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 \*\***