

Experiment Number: 178544

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

**G06: Ames Summary Data**

Test Compound: **Tributyl phosphate**

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

Date Report Requested: **09/13/2018**

Time Report Requested: **18:20:59**

**NTP Study Number:**

178544

**Study Result:**

Negative

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Test Compound: Tributyl phosphate

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Date Report Requested: 09/13/2018

Time Report Requested: 18:20:59

## 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>	120 ± 12.8	144 ± 2.7	125 ± 4.0	115 ± 0.6	114 ± 5.2
1.0		129 ± 2.7			
3.3	125 ± 8.5	107 ± 4.8	112 ± 2.7	120 ± 6.2	107 ± 5.6
10.0	137 ± 3.3	107 ± 3.8	109 ± 4.8	121 ± 7.2	109 ± 11.5
33.0	110 ± 3.0	107 ± 8.7	110 ± 6.1	113 ± 4.7	108 ± 7.7
100.0	81 ± 5.5 <sup>s</sup>	97 ± 7.1 <sup>s</sup>	108 ± 3.7	118 ± 6.1	108 ± 2.0
333.0	59 ± 6.7 <sup>s</sup>		95 ± 1.9 <sup>s</sup>	28 ± 20.4 <sup>s</sup>	82 ± 6.4 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					763 ± 33.3
Positive Control <sup>3</sup>	389 ± 3.0	552 ± 10.4			
Positive Control <sup>4</sup>			1127 ± 7.1		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>				2070 ± 35.2	

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	131 ± 6.9
1.0	
3.3	122 ± 6.3
10.0	131 ± 4.0
33.0	129 ± 1.9
100.0	127 ± 4.7
333.0	61 ± 17.8
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	437 ± 7.0
Positive Control <sup>6</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>	17 ± 1.8	21 ± 2.6	13 ± 0.9	10 ± 3.4	16 ± 1.9
1.0	20 ± 0.9	21 ± 3.4		9 ± 0.3	
3.3	21 ± 2.2	26 ± 4.2	13 ± 1.3	12 ± 1.7	19 ± 1.5
10.0	21 ± 0.7	22 ± 2.0	19 ± 2.1	12 ± 1.3	13 ± 0.7
33.0	16 ± 0.7	26 ± 0.7	17 ± 1.5	10 ± 0.3	19 ± 1.9
100.0	17 ± 2.3 <sup>s</sup>	15 ± 1.8 <sup>s</sup>	12 ± 0.9	5 ± 1.3 <sup>s</sup>	18 ± 1.8
333.0			9 ± 0.7 <sup>s</sup>		9 ± 3.2 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					62 ± 5.5
Positive Control <sup>3</sup>	358 ± 19.2	310 ± 11.5			
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>			253 ± 6.3	173 ± 6.9	

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**G06: Ames Summary Data**

Test Compound: **Tributyl phosphate**

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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>	8 ± 1.5
1.0	10 ± 1.5
3.3	9 ± 2.6
10.0	15 ± 1.7
33.0	13 ± 3.1
100.0	6 ± 0.3 <sup>s</sup>
333.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	129 ± 2.7
Positive Control <sup>6</sup>	

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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>	65 ± 8.7	125 ± 4.5	136 ± 7.5	84 ± 6.9	122 ± 5.5
1.0	58 ± 2.5	124 ± 3.3		89 ± 5.2	
3.3	63 ± 4.4	122 ± 4.0	170 ± 7.5	69 ± 5.5	156 ± 6.0
10.0	65 ± 4.4	110 ± 12.5	133 ± 5.5	84 ± 3.5	131 ± 2.2
33.0	62 ± 7.1	123 ± 4.9	165 ± 0.7	70 ± 7.3 <sup>s</sup>	119 ± 8.6
100.0	49 ± 6.2 <sup>s</sup>	108 ± 1.7 <sup>s</sup>	105 ± 5.2 <sup>s</sup>	46 ± 23.7 <sup>s</sup>	126 ± 0.9 <sup>s</sup>
333.0			103 ± 3.5 <sup>s</sup>		100 ± 9.3 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>7</sup>	527 ± 16.8	532 ± 16.6			
Positive Control <sup>4</sup>					343 ± 10.7
Positive Control <sup>6</sup>			1445 ± 56.8		
Positive Control <sup>8</sup>				912 ± 22.2	

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	67 ± 10.0	101 ± 2.3
1.0	60 ± 4.7	
3.3	64 ± 6.5	114 ± 2.7
10.0	49 ± 2.0	119 ± 4.6
33.0	46 ± 3.8	118 ± 9.1
100.0	48 ± 4.7 <sup>s</sup>	115 ± 7.5
333.0		81 ± 5.0 <sup>s</sup>
Trial Summary	Negative	Negative
Positive Control <sup>7</sup>		
Positive Control <sup>4</sup>		
Positive Control <sup>6</sup>		
Positive Control <sup>8</sup>	665 ± 74.8	850 ± 13.5

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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>	26 ± 2.7	14 ± 3.0	28 ± 2.6	43 ± 3.2	29 ± 3.2
1.0		13 ± 2.6			
3.3	24 ± 3.8	17 ± 4.1	33 ± 4.2	48 ± 4.2	26 ± 4.7
10.0	30 ± 4.9	22 ± 3.8	25 ± 0.7	43 ± 2.7	33 ± 2.2
33.0	29 ± 6.9	12 ± 5.8	26 ± 5.1	49 ± 4.2	29 ± 4.3
100.0	20 ± 2.8 <sup>s</sup>	12 ± 3.3	25 ± 2.6 <sup>s</sup>	40 ± 3.1	27 ± 3.2
333.0	7 ± 0.6 <sup>s</sup>		18 ± 1.8 <sup>s</sup>	7 ± 2.3 <sup>s</sup>	18 ± 3.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			325 ± 16.8		354 ± 9.4
Positive Control <sup>5</sup>				425 ± 19.5	
Positive Control <sup>9</sup>	229 ± 2.7	327 ± 3.5			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	34 ± 5.2	35 ± 2.9
1.0	29 ± 4.5	
3.3	36 ± 1.8	27 ± 0.3
10.0	30 ± 0.9	28 ± 3.8
33.0	29 ± 3.0	30 ± 3.6
100.0	13 ± 1.3 <sup>s</sup>	28 ± 4.7
333.0		23 ± 3.0 <sup>s</sup>
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>	336 ± 7.2	
Positive Control <sup>5</sup>		191 ± 8.0
Positive Control <sup>9</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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 0.05 ug/Plate Solvent

8: 2.5 ug/Plate 2-Aminoanthracene

9: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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