

Experiment Number: A69460

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Tributoxyethyl phosphate

CAS Number: 78-51-3

Date Report Requested: 09/17/2018

Time Report Requested: 14:41:53

NTP Study Number:

A69460

Study Result:

Negative

Experiment Number: A69460

Test Type: Genetic Toxicology - Bacterial
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Test Compound: Tributyoxyethyl phosphate
CAS Number: 78-51-3

Date Report Requested: 09/17/2018

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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 ¹	106 ± 10.7	112 ± 7.6	119 ± 5.5	119 ± 5.6	110 ± 2.6
3.0	113 ± 11.4				
10.0	126 ± 2.1	117 ± 9.9			
33.0	98 ± 1.2	131 ± 17.8	117 ± 4.4	129 ± 3.5	137 ± 8.1
100.0	102 ± 5.5	114 ± 6.9	141 ± 5.0	137 ± 4.7	113 ± 2.1
333.0	80 ± 5.1 ^s	111 ± 4.7	108 ± 5.2	121 ± 3.8	118 ± 1.0
1000.0		53 ± 3.8 ^s	108 ± 2.8	109 ± 8.7	105 ± 6.1
3333.0			76 ± 2.6 ^s	82 ± 3.1 ^s	63 ± 4.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					695 ± 42.4
Positive Control ³			672 ± 11.4		
Positive Control ⁴				354 ± 4.7	
Positive Control ⁵	962 ± 52.6	878 ± 26.8			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	133 ± 4.4
3.0	
10.0	
33.0	142 ± 4.3
100.0	133 ± 8.7
333.0	130 ± 5.2
1000.0	114 ± 3.2
3333.0	68 ± 3.2 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	441 ± 20.0
Positive Control ⁴	
Positive Control ⁵	

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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 ¹	11 ± 1.2	10 ± 1.0	11 ± 1.5	12 ± 1.5	9 ± 0.9
3.0	9 ± 0.3				
10.0	10 ± 0.3	7 ± 0.3			
33.0	11 ± 0.3	10 ± 1.5	7 ± 0.6	9 ± 0.0	9 ± 1.2
100.0	10 ± 1.0	8 ± 0.3	10 ± 1.2	10 ± 0.0	12 ± 2.5
333.0	6 ± 0.7	9 ± 0.7	9 ± 0.6	12 ± 0.9	7 ± 1.2
1000.0		4 ± 0.9 ^s	10 ± 2.2	14 ± 2.9	9 ± 0.3
3333.0			3 ± 0.3 ^s	4 ± 0.7 ^s	4 ± 0.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					198 ± 16.9
Positive Control ⁵	832 ± 11.4	928 ± 59.2			
Positive Control ⁴			140 ± 1.8		
Positive Control ⁶				127 ± 1.5	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 1.2
3.0	
10.0	
33.0	11 ± 1.5
100.0	9 ± 0.3
333.0	8 ± 0.9
1000.0	11 ± 0.9
3333.0	7 ± 1.2
Trial Summary	Negative
Positive Control ³	
Positive Control ⁵	
Positive Control ⁴	241 ± 22.6
Positive Control ⁶	

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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 ¹	146 ± 3.2	141 ± 13.6	147 ± 5.4	166 ± 2.3	121 ± 5.5
3.0	143 ± 3.2				
10.0	140 ± 5.7	136 ± 6.1			
33.0	150 ± 9.0	141 ± 3.7	172 ± 9.2	178 ± 9.4	137 ± 0.9
100.0	163 ± 7.7	134 ± 1.5	168 ± 5.0	182 ± 2.0	125 ± 9.2
333.0	48 ± 1.9 ^s	127 ± 10.1	127 ± 9.0	169 ± 4.4	121 ± 5.9
1000.0		73 ± 2.0 ^s	112 ± 4.4	132 ± 1.5	99 ± 6.1
3333.0			89 ± 1.0 ^s	112 ± 7.3	70 ± 10.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					621 ± 41.8
Positive Control ³			678 ± 6.7		
Positive Control ⁴				643 ± 22.7	
Positive Control ⁷	465 ± 17.6	443 ± 13.0			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	126 ± 5.2
3.0	
10.0	
33.0	131 ± 10.0
100.0	161 ± 12.7
333.0	175 ± 6.1
1000.0	141 ± 8.7
3333.0	99 ± 6.5
Trial Summary	Equivocal
Positive Control ²	
Positive Control ³	535 ± 10.0
Positive Control ⁴	
Positive Control ⁷	

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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 ¹	18 ± 0.7	19 ± 2.3	28 ± 1.2	34 ± 2.6	27 ± 3.2
3.0	25 ± 6.7				
10.0	20 ± 2.5	23 ± 3.8			
33.0	21 ± 2.4	15 ± 1.5	26 ± 0.9	28 ± 2.1	26 ± 0.6
100.0	21 ± 2.3	17 ± 1.9	27 ± 1.2	28 ± 2.3	22 ± 3.0
333.0	21 ± 2.5	13 ± 0.7	13 ± 2.2	24 ± 5.2	16 ± 0.9
1000.0		19 ± 1.2	17 ± 1.2	21 ± 2.3 ^s	17 ± 2.0
3333.0			16 ± 1.2	12 ± 3.2 ^s	10 ± 1.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					811 ± 7.8
Positive Control ³			805 ± 40.7		
Positive Control ⁸	397 ± 3.2	475 ± 17.7			
Positive Control ⁴				179 ± 6.8	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	31 ± 3.6
3.0	
10.0	
33.0	22 ± 2.5
100.0	27 ± 1.3
333.0	29 ± 1.5
1000.0	26 ± 0.3
3333.0	18 ± 0.3 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	155 ± 2.3
Positive Control ⁸	
Positive Control ⁴	

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LEGEND

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: 5.0 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate Sodium Azide

6: 10.0 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 ****