

Experiment Number: 268593

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: tris(1,3-Dichloro-2-propyl) phosphate

CAS Number: 13674-87-8

Date Report Requested: 09/11/2018

Time Report Requested: 08:50:01

NTP Study Number:

268593

Study Result:

Positive

Experiment Number: 268593

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: tris(1,3-Dichloro-2-propyl) phosphate
CAS Number: 13674-87-8

Date Report Requested: 09/11/2018

Time Report Requested: 08:50:01

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	84 ± 1.9	81 ± 3.2			111 ± 9.0
Vehicle Control ²			122 ± 0.9	142 ± 6.1	
0.1		91 ± 7.1			
0.3		85 ± 1.9			
1.0		96 ± 6.3			
3.3	81 ± 11.6	80 ± 4.4			111 ± 7.2
10.0	77 ± 3.0	81 ± 4.1			124 ± 0.9
33.0	62 ± 2.7 ^s	72 ± 4.8 ^s	125 ± 3.9	141 ± 10.0	121 ± 3.4
100.0	41 ± 13.1 ^s				128 ± 2.3
333.0	46 ± 4.3 ^s		69 ± 4.6 ^s	47 ± 8.1 ^s	143 ± 2.9 ^s
1000.0					
3333.0			88 ± 12.5 ^s	48 ± 13.2 ^s	
5000.0			96 ± 12.7 ^s	60 ± 12.0 ^s	
7500.0					
10000.0			108 ± 13.2 ^s	80 ± 9.7 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					
Positive Control ⁴	605 ± 9.8	425 ± 8.3			
Positive Control ⁵					
Positive Control ⁶			796 ± 7.1	994 ± 17.7	955 ± 37.9

Experiment Number: 268593

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: tris(1,3-Dichloro-2-propyl) phosphate
CAS Number: 13674-87-8

Date Report Requested: 09/11/2018

Time Report Requested: 08:50:01

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹					102 ± 5.2
Vehicle Control ²	106 ± 6.1	123 ± 10.3	131 ± 4.7	128 ± 4.1	
0.1					
0.3					
1.0					
3.3					94 ± 6.1
10.0	106 ± 6.4			124 ± 5.1	92 ± 10.8
33.0	114 ± 3.3	139 ± 8.5		126 ± 6.5	96 ± 5.6
100.0	71 ± 23.0 ^S			123 ± 3.5	104 ± 6.8 ^S
333.0	158 ± 49.0 ^S	46 ± 25.6 ^S		77 ± 10.0 ^S	74 ± 7.9 ^S
1000.0	202 ± 14.5 ^S		107 ± 4.7 ^S	189 ± 45.6 ^S	
3333.0	Toxic	55 ± 26.3 ^S	232 ± 42.8 ^S	350 ± 29.5 ^S	
5000.0	126 ± 12.7 ^S	173 ± 33.1 ^S	313 ± 39.7 ^S	300 ± 10.5 ^S	
7500.0	81 ± 42.5 ^S		300 ± 40.7 ^S	364 ± 44.2 ^S	
10000.0	203 ± 171.0 ^S	230 ± 29.9 ^S	334 ± 50.5 ^S	334 ± 81.5 ^S	
Trial Summary	Equivocal	Equivocal	Positive	Positive	Negative
Positive Control ³	774 ± 91.5				
Positive Control ⁴					
Positive Control ⁵		418 ± 6.2	422 ± 3.1	527 ± 11.3	837 ± 30.1
Positive Control ⁶					

Experiment Number: 268593

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: tris(1,3-Dichloro-2-propyl) phosphate
CAS Number: 13674-87-8

Date Report Requested: 09/11/2018

Time Report Requested: 08:50:01

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	94 ± 5.7	144 ± 11.1	125 ± 10.7	154 ± 3.5
Vehicle Control ²				
0.1				
0.3	107 ± 8.3			
1.0	109 ± 4.4			
3.3	102 ± 2.6			
10.0	118 ± 6.6			
33.0	110 ± 6.6			
100.0	99 ± 3.9			
333.0		157 ± 3.2 ^S	214 ± 7.0 ^P	141 ± 11.2 ^S
1000.0		68 ± 8.4 ^S	235 ± 9.0 ^P	297 ± 3.1 ^S
3333.0		78 ± 10.3 ^S	133 ± 23.3 ^S	521 ± 9.1 ^S
5000.0		142 ± 23.3 ^S	115 ± 16.1 ^S	494 ± 29.1 ^S
7500.0		96 ± 20.5 ^S	107 ± 14.2 ^S	560 ± 21.3 ^S
10000.0		96 ± 8.4 ^S	60 ± 8.1 ^S	492 ± 3.2 ^S
Trial Summary	Negative	Negative	Weakly Positive	Positive
Positive Control ³				
Positive Control ⁴				
Positive Control ⁵	444 ± 35.5	472 ± 15.7	726 ± 22.9	784 ± 27.0
Positive Control ⁶				

Experiment Number: 268593

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: tris(1,3-Dichloro-2-propyl) phosphate
CAS Number: 13674-87-8

Date Report Requested: 09/11/2018

Time Report Requested: 08:50:01

Strain: TA1535				
Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ²	19 ± 3.5	21 ± 3.8	37 ± 1.5	22 ± 2.2
3.3	18 ± 0.3	19 ± 2.7		22 ± 1.8
10.0	19 ± 2.1	18 ± 1.2		22 ± 5.0
33.0	21 ± 3.1	23 ± 0.9		19 ± 2.8
100.0	Toxic	25 ± 2.2		19 ± 2.0
333.0	Toxic	24 ± 2.3 ^s		0 ± 0.0 ^s
1000.0			33 ± 3.5 ^s	
3333.0			34 ± 4.7 ^s	
5000.0			36 ± 0.9 ^s	
7500.0			41 ± 7.0 ^s	
10000.0			36 ± 4.8 ^s	
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁴	273 ± 4.6			
Positive Control ⁵			83 ± 1.0	110 ± 11.2
Positive Control ⁶		82 ± 6.7		

Experiment Number: 268593

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: tris(1,3-Dichloro-2-propyl) phosphate
CAS Number: 13674-87-8

Date Report Requested: 09/11/2018

Time Report Requested: 08:50:01

Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ²	6 ± 0.6	6 ± 1.9	4 ± 1.8
3.3	9 ± 1.7	8 ± 0.9	5 ± 1.2
10.0	5 ± 0.9	9 ± 3.2	5 ± 1.5
33.0	8 ± 1.8	8 ± 1.2	6 ± 2.0
100.0	Toxic	11 ± 1.3	7 ± 2.1
333.0	Toxic	8 ± 3.0 ^s	0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ⁷		31 ± 2.3	77 ± 2.3
Positive Control ⁸	28 ± 1.7		

Experiment Number: 268593

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: tris(1,3-Dichloro-2-propyl) phosphate
CAS Number: 13674-87-8

Date Report Requested: 09/11/2018

Time Report Requested: 08:50:01

Strain: TA97

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ²	93 ± 2.6	124 ± 31.9	124 ± 11.7
3.3	84 ± 4.4	152 ± 8.4	120 ± 6.7
10.0	84 ± 9.0	155 ± 12.1	124 ± 2.5
33.0	86 ± 5.5 ^s	144 ± 8.2	132 ± 4.4
100.0	Toxic	141 ± 8.3	137 ± 2.8
333.0	Toxic	67 ± 20.5 ^s	138 ± 6.9 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ⁷		426 ± 23.5	477 ± 19.9
Positive Control ⁹	263 ± 12.9		

Experiment Number: 268593

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: tris(1,3-Dichloro-2-propyl) phosphate
CAS Number: 13674-87-8

Date Report Requested: 09/11/2018

Time Report Requested: 08:50:01

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 30% Rat S9
Vehicle Control ²	21 ± 2.5	19 ± 1.9			32 ± 0.7
Vehicle Control ¹			22 ± 1.0	13 ± 2.4	
0.3				14 ± 0.7	
1.0				14 ± 0.7	
3.3			20 ± 2.2	15 ± 2.1	
10.0			18 ± 3.3	18 ± 2.4	
33.0	26 ± 5.2	23 ± 1.2	12 ± 0.6	17 ± 2.1	31 ± 3.0
100.0			17 ± 2.5 ^s	7 ± 0.9 ^s	
333.0	18 ± 2.3 ^s	12 ± 2.3 ^s	8 ± 0.3 ^s		28 ± 0.6 ^s
3333.0	18 ± 2.1 ^s	15 ± 1.5 ^s			29 ± 2.3 ^s
5000.0	17 ± 0.9 ^s	14 ± 2.1 ^s			29 ± 3.5 ^s
10000.0	14 ± 0.9 ^s	11 ± 0.3 ^s			35 ± 3.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					
Positive Control ⁵					202 ± 3.2
Positive Control ¹⁰	182 ± 0.5	135 ± 2.2	407 ± 5.9	333 ± 18.9	

Experiment Number: 268593

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: tris(1,3-Dichloro-2-propyl) phosphate
CAS Number: 13674-87-8

Date Report Requested: 09/11/2018

Time Report Requested: 08:50:01

Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ²	36 ± 4.0		41 ± 2.2	36 ± 3.2	
Vehicle Control ¹		26 ± 5.7			27 ± 3.3
0.3					
1.0					
3.3		27 ± 3.2			23 ± 0.3
10.0		27 ± 5.6			32 ± 4.7
33.0	41 ± 1.5	30 ± 5.2	30 ± 5.5	43 ± 3.2	27 ± 2.8
100.0		27 ± 5.4			26 ± 5.5
333.0	30 ± 5.6 ^S	20 ± 2.1 ^S	21 ± 4.3 ^S	20 ± 9.4 ^S	7 ± 6.0 ^S
3333.0	32 ± 3.2 ^S		38 ± 7.2 ^S	36 ± 7.3 ^S	
5000.0	22 ± 2.3 ^S		32 ± 4.6 ^S	28 ± 3.5 ^S	
10000.0	27 ± 4.2 ^S		39 ± 1.7 ^S	31 ± 4.4 ^S	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			80 ± 1.5	78 ± 3.8	
Positive Control ⁵	278 ± 14.0	525 ± 14.4			665 ± 44.4
Positive Control ¹⁰					

Experiment Number: 268593

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: tris(1,3-Dichloro-2-propyl) phosphate
CAS Number: 13674-87-8

Date Report Requested: 09/11/2018

Time Report Requested: 08:50:01

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: 100% Ethanol

2: Vehicle Control: 95% Ethanol

3: 0.4 ug/Plate 2-Aminoanthracene

4: 0.5 ug/Plate Sodium Azide

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 2-Aminoanthracene

8: 4.0 ug/Plate 9-Aminoacridine

9: 8.0 ug/Plate 9-Aminoacridine

10: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****