

Experiment Number: 923771

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: tert-Butyl perbenzoate

CAS Number: 614-45-9

Date Report Requested: 09/17/2018

Time Report Requested: 06:58:59

NTP Study Number:

923771

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	105 ± 6.7	88 ± 1.2	91 ± 5.9	142 ± 2.8	145 ± 10.2
0.3		76 ± 1.5			
0.33			85 ± 4.3		
1.0	96 ± 5.9	79 ± 0.7	104 ± 1.2		
3.3	93 ± 5.4	89 ± 8.2	118 ± 0.9	129 ± 2.3	
10.0	92 ± 2.5	110 ± 3.8	129 ± 7.5	159 ± 10.7	145 ± 7.2
16.0					
16.7					147 ± 5.5
33.0	Toxic	126 ± 5.0	Toxic	287 ± 19.0	
33.3					213 ± 14.3
66.7					266 ± 1.9
67.0					
100.0	Toxic			149 ± 4.6	Toxic
333.0				Toxic	
Trial Summary	Negative	Weakly Positive	Weakly Positive	Equivocal	Weakly Positive
Positive Control ²				2645 ± 18.4	2393 ± 65.2
Positive Control ³	1486 ± 26.4	738 ± 23.6	1616 ± 45.9		

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	141 ± 3.5	166 ± 4.5	182 ± 6.7	100 ± 12.4
0.3				
0.33				
1.0				
3.3		153 ± 5.7		
10.0	161 ± 7.2	190 ± 5.0	147 ± 7.9	147 ± 4.6
16.0	165 ± 12.0			127 ± 7.3
16.7			178 ± 7.1	
33.0	182 ± 4.7	287 ± 8.8		146 ± 4.4
33.3			232 ± 18.7	
66.7			268 ± 8.2	
67.0	246 ± 24.6			227 ± 14.0
100.0	288 ± 8.1	208 ± 18.5	136 ± 21.4	269 ± 4.4
333.0		Toxic		
Trial Summary	Positive	Weakly Positive	Weakly Positive	Positive
Positive Control ²	1060 ± 71.2	2642 ± 45.8	2045 ± 109.9	1248 ± 54.5
Positive Control ³				

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.7	4 ± 1.2	11 ± 1.7	11 ± 1.3	20 ± 1.2
1.0	13 ± 1.9	4 ± 0.3			
3.3	11 ± 2.6	5 ± 0.6	8 ± 0.6	13 ± 3.2	20 ± 3.7
10.0	9 ± 1.5	4 ± 0.9	10 ± 1.3	14 ± 3.5	22 ± 2.4
33.0	9 ± 2.3	6 ± 0.9	17 ± 2.9	9 ± 0.7	19 ± 5.0
100.0	13 ± 3.2	6 ± 1.5	12 ± 3.3	11 ± 1.5	12 ± 2.0
333.0			Toxic	Toxic	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			200 ± 24.1		229 ± 10.1
Positive Control ⁴				283 ± 27.7	
Positive Control ³	1152 ± 144.3	643 ± 43.4			

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Test Compound: **tert-Butyl perbenzoate**

CAS Number: **614-45-9**

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

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	15 ± 1.5
1.0	17 ± 2.8
3.3	16 ± 2.0
10.0	14 ± 0.9
33.0	12 ± 1.0
100.0	12 ± 0.3
333.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	278 ± 10.4
Positive Control ³	

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	9 ± 1.2	9 ± 2.0	3 ± 0.0	15 ± 0.0	23 ± 1.0
1.0	10 ± 0.6		3 ± 0.9		
3.3	10 ± 1.5		3 ± 0.9	18 ± 3.5	
10.0	9 ± 2.4		6 ± 1.0	15 ± 2.3	22 ± 0.3
16.0					
16.7		11 ± 2.3			24 ± 2.7
33.0	12 ± 2.1		10 ± 2.7	65 ± 7.8	
33.3		17 ± 0.9			48 ± 13.7
66.7		21 ± 1.0			59 ± 12.3
67.0					
100.0	23 ± 2.1	Toxic	16 ± 3.1	14 ± 2.2	Toxic
167.0		Toxic			
333.0				Toxic	
Trial Summary	Equivocal	Weakly Positive	Weakly Positive	Equivocal	Positive
Positive Control ²				483 ± 1.5	
Positive Control ⁴					380 ± 120.7
Positive Control ⁵	161 ± 11.8	223 ± 101.7	62 ± 11.6		

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Strain: TA1537

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 0.9	16 ± 2.9	21 ± 0.6	13 ± 0.9
1.0				
3.3		15 ± 2.6		
10.0	7 ± 1.5	13 ± 3.4		20 ± 3.1
16.0				19 ± 0.0
16.7	14 ± 1.5		25 ± 1.8	
33.0		56 ± 0.9		15 ± 2.6
33.3	41 ± 5.3		36 ± 0.9	
66.7	26 ± 6.6		65 ± 10.4	
67.0				30 ± 0.6
100.0	Toxic	46 ± 10.2	47 ± 7.0	64 ± 5.2
167.0			Toxic	
333.0		Toxic		
Trial Summary	Positive	Equivocal	Positive	Positive
Positive Control ²		521 ± 27.1		
Positive Control ⁴	337 ± 12.8		216 ± 33.1	233 ± 14.4
Positive Control ⁵				

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	22 ± 2.3	11 ± 0.3	15 ± 2.6	29 ± 1.5	44 ± 0.9
1.0	20 ± 3.8	14 ± 0.6	17 ± 2.2		
3.3	27 ± 2.3	17 ± 2.0	18 ± 2.6	32 ± 3.2	
10.0	28 ± 2.4	16 ± 0.9	21 ± 3.5	43 ± 3.5	41 ± 2.9
16.0					
16.7					50 ± 2.1
33.0	20 ± 4.3	25 ± 4.1	26 ± 0.6	72 ± 0.6	
33.3					77 ± 5.7
66.7					23 ± 3.8
67.0					
100.0	28 ± 2.0	34 ± 5.2	36 ± 4.0	33 ± 2.0	Toxic
333.0				Toxic	
Trial Summary	Negative	Positive	Positive	Positive	Weakly Positive
Positive Control ²				1747 ± 26.4	2223 ± 214.3
Positive Control ⁶	195 ± 27.9	188 ± 11.6	171 ± 9.0		

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Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	31 ± 1.5	37 ± 2.8	40 ± 0.6	29 ± 3.8
1.0				
3.3		38 ± 1.5		
10.0	53 ± 5.5	44 ± 3.4	44 ± 2.6	54 ± 5.0
16.0	56 ± 2.9			41 ± 2.3
16.7			60 ± 2.6	
33.0	57 ± 7.0	65 ± 6.8		45 ± 6.4
33.3			76 ± 6.4	
66.7			55 ± 7.6	
67.0	87 ± 5.5			71 ± 6.8
100.0	76 ± 4.8	35 ± 5.2	Toxic	75 ± 11.8
333.0		Toxic		
Trial Summary	Positive	Weakly Positive	Weakly Positive	Positive
Positive Control ²	508 ± 34.4	1611 ± 75.1	1305 ± 219.9	595 ± 49.4
Positive Control ⁶				

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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: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****