

Experiment Number: 377283

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

G06: Ames Summary Data

Test Compound: **Butylated hydroxytoluene**

CAS Number: 128-37-0

Date Report Requested: **09/14/2018**

Time Report Requested: **03:31:34**

NTP Study Number:

377283

Study Result:

Negative

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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	103 ± 15.9	144 ± 7.6	119 ± 11.9	86 ± 5.8	134 ± 9.9
0.1			115 ± 5.6		
0.3			126 ± 4.1		
1.0			132 ± 2.0		
3.3			125 ± 15.6		
10.0		146 ± 3.8 ^S	125 ± 4.4 ^S		
33.0	94 ± 8.0 ^S	142 ± 4.9 ^S			
100.0	102 ± 3.1 ^S	121 ± 7.3 ^S		104 ± 3.2	138 ± 8.4
333.0	107 ± 4.8 ^S	137 ± 7.9 ^S		88 ± 5.7 ^P	108 ± 4.0
1000.0	101 ± 2.6 ^S	115 ± 9.0 ^S		79 ± 2.0 ^P	106 ± 4.1 ^S
3333.0	89 ± 2.9 ^S			83 ± 2.5 ^P	105 ± 11.0 ^S
10000.0				69 ± 1.2 ^P	99 ± 4.0 ^S
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				1382 ± 107.3	976 ± 6.7
Positive Control ⁴	2225 ± 32.3	2794 ± 28.7	2260 ± 103.8		

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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	With 10% Hamster S9
Vehicle Control ¹	135 ± 9.6	108 ± 3.8	129 ± 14.9 ^S	126 ± 6.1	129 ± 7.3
0.1					
0.3					
1.0					
3.3					
10.0	148 ± 5.2			120 ± 2.3	131 ± 2.7
33.0	128 ± 3.8			117 ± 4.6	111 ± 7.5
100.0	147 ± 4.2	95 ± 4.1	132 ± 2.4 ^S	124 ± 3.7	120 ± 4.3
333.0	111 ± 12.5	94 ± 4.7	128 ± 13.5 ^S	114 ± 1.5	116 ± 2.9
1000.0	126 ± 12.8 ^S	90 ± 1.8 ^P	115 ± 1.2 ^S	103 ± 6.7 ^S	97 ± 7.9 ^S
3333.0		78 ± 3.8 ^P	105 ± 1.5 ^S	95 ± 7.8 ^S	89 ± 10.0 ^S
10000.0		72 ± 2.5 ^P	113 ± 5.4 ^S	99 ± 7.2 ^S	94 ± 10.6 ^S
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²		2340 ± 114.1	2058 ± 31.7	2140 ± 85.1	
Positive Control ³	1130 ± 41.9				
Positive Control ⁴					

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	109 ± 6.4
0.1	
0.3	
1.0	
3.3	
10.0	104 ± 7.2
33.0	140 ± 10.8
100.0	127 ± 3.1
333.0	139 ± 7.8
1000.0	121 ± 1.2 ^s
3333.0	
10000.0	
Trial Summary	Negative
Positive Control ²	2328 ± 39.2
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	30 ± 2.0	30 ± 0.9	23 ± 1.5	8 ± 0.3	9 ± 1.5
0.1			16 ± 1.0		
0.3			21 ± 1.5		
1.0			20 ± 2.0		
3.3			18 ± 3.2		
10.0		28 ± 3.5 ^S	20 ± 3.8 ^S		
33.0	26 ± 2.3 ^S	26 ± 1.5 ^S			
100.0	22 ± 4.1 ^S	18 ± 3.3 ^S		11 ± 0.3	11 ± 1.3
333.0	20 ± 4.7 ^S	25 ± 4.3 ^S		8 ± 0.3 ^S	8 ± 2.3 ^P
1000.0	20 ± 0.3 ^S	24 ± 4.3 ^S		10 ± 1.2 ^S	10 ± 3.2 ^S
3333.0	21 ± 1.9 ^S			9 ± 0.9 ^S	9 ± 0.9 ^S
10000.0				5 ± 1.3 ^S	11 ± 0.0 ^S
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				85 ± 3.2	59 ± 3.9
Positive Control ⁴	1474 ± 58.5	2150 ± 86.6	1437 ± 35.4		

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 3.6	11 ± 2.0	7 ± 1.3	11 ± 2.8
0.1				
0.3				
1.0				
3.3				
10.0	11 ± 0.3			9 ± 1.7
33.0	9 ± 1.2			9 ± 0.7
100.0	11 ± 1.8	6 ± 1.0	10 ± 2.1	6 ± 0.3
333.0	8 ± 0.7	10 ± 1.2 ^s	9 ± 1.7	8 ± 0.9
1000.0	10 ± 2.3 ^s	10 ± 0.9 ^s	10 ± 1.0 ^s	13 ± 0.7 ^s
3333.0		5 ± 1.2 ^s	8 ± 2.6 ^s	
10000.0		7 ± 1.5 ^s	8 ± 1.5 ^s	
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²		132 ± 7.6	132 ± 4.0	153 ± 7.3
Positive Control ³	120 ± 15.1			
Positive Control ⁴				

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	5 ± 1.5	5 ± 1.9	7 ± 2.0	7 ± 2.0	10 ± 1.3
10.0		4 ± 0.9			
33.0	6 ± 1.7	7 ± 2.0			
100.0	4 ± 0.7	6 ± 2.2	6 ± 1.2	6 ± 1.7	9 ± 1.5
333.0	5 ± 1.0	6 ± 0.9	7 ± 1.0 ^p	6 ± 1.2	9 ± 0.3
1000.0	4 ± 0.9	6 ± 0.6	7 ± 0.7 ^p	6 ± 2.2 ^p	6 ± 1.8 ^p
3333.0	5 ± 1.5		3 ± 1.0 ^p	7 ± 0.3 ^p	7 ± 1.0 ^p
10000.0			5 ± 0.6 ^p	2 ± 0.3 ^p	7 ± 1.5 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					150 ± 17.3
Positive Control ³			97 ± 4.0	62 ± 3.0	
Positive Control ⁵	379 ± 51.1	555 ± 40.5			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 0.6
10.0	
33.0	
100.0	9 ± 0.3
333.0	9 ± 0.3
1000.0	7 ± 1.8
3333.0	7 ± 0.9 ^p
10000.0	4 ± 0.3 ^p
Trial Summary	Negative
Positive Control ²	183 ± 13.5
Positive Control ³	
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	18 ± 2.4	21 ± 2.7	23 ± 3.3	25 ± 6.1	29 ± 4.1
10.0		21 ± 3.2			
33.0	21 ± 3.3	16 ± 5.0			
100.0	20 ± 1.9	18 ± 2.9	26 ± 1.5	27 ± 3.5	23 ± 4.4
333.0	13 ± 0.9	18 ± 1.2	20 ± 2.2 ^P	23 ± 4.7 ^P	20 ± 5.0
1000.0	14 ± 0.9	16 ± 2.8	23 ± 3.1 ^P	20 ± 2.1 ^P	22 ± 2.7 ^P
3333.0	11 ± 0.9		21 ± 3.8 ^P	20 ± 2.8 ^P	26 ± 2.0 ^P
10000.0			21 ± 0.7 ^P	14 ± 1.8 ^P	22 ± 2.3 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1792 ± 64.4
Positive Control ³			747 ± 61.8	1475 ± 30.0	
Positive Control ⁶	1760 ± 46.3	760 ± 12.2			

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Date Report Requested: 09/14/2018

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	26 ± 2.4
10.0	
33.0	
100.0	26 ± 3.1
333.0	23 ± 1.8
1000.0	23 ± 2.0 ^P
3333.0	22 ± 2.3 ^P
10000.0	23 ± 1.5 ^P
Trial Summary	Negative
Positive Control ²	1805 ± 51.9
Positive Control ³	
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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****