Experiment Number: **663851**

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

G06: Ames Summary Data

Test Compound: **t-Butylhydroquinone**

CAS Number: **1948-33-0**

Date Report Requested: **09/11/2018**

Time Report Requested: **11:54:56**

NTP Study Number: 663851

Study Result: Negative

Experiment Number: **663851**

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

G06: Ames Summary Data

Test Compound: **t-Butylhydroquinone**

CAS Number: **1948-33-0**

Date Report Requested: **09/11/2018**

Time Report Requested: **11:54:56**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control[1]	143 ± 6.0	95 ± 11.0	121 ± 10.3	108 ± 4.0	141 ± 10.7
3.0		83 ± 3.3	111 ± 11.6		
10.0	129 ± 11.3	98 ± 7.5	112 ± 5.1		
33.0	115 ± 1.2	90 ± 4.8	113 ± 7.9	134 ± 3.5	150 ± 13.2
100.0	145 ± 2.5	85 ± 3.2	119 ± 11.2	140 ± 10.7	111 ± 14.8
166.0		79 ± 4.4	106 ± 3.8		
333.0	Toxic			131 ± 2.2	145 ± 12.5
666.0	Toxic				
1000.0				103 ± 7.5	141 ± 8.5
1666.0				61 ± 6.4	
3333.0					106 ± 10.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					
Positive Control[3]				553 ± 18.8	
Positive Control[4]	317 ± 9.3	394 ± 24.4	450 ± 20.9		
Positive Control[5]					627 ± 22.6

Experiment Number: **663851**

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

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control[1]	118 ± 11.0	172 ± 1.2
3.0		
10.0		
33.0	115 ± 4.7	127 ± 16.2
100.0	111 ± 7.8	153 ± 3.4
166.0		
333.0	101 ± 7.7	128 ± 8.2
666.0		
1000.0	103 ± 11.3	85 ± 10.7
1666.0	81 ± 3.0[s]	
3333.0		0 ± 0.0[s]
Trial Summary	Negative	Negative
Positive Control[2]	691 ± 48.0	
Positive Control[3]		645 ± 37.1
Positive Control[4]		
Positive Control[5]		

Experiment Number: **663851**

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

G06: Ames Summary Data

Test Compound: **t-Butylhydroquinone**

CAS Number: **1948-33-0**

Date Report Requested: **09/11/2018**

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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]	127 ± 6.7	151 ± 6.6	176 ± 18.3	223 ± 8.1	154 ± 3.4
3.0	155 ± 18.8	141 ± 5.9			
10.0	155 ± 4.9	163 ± 8.5			
33.0	167 ± 8.6	157 ± 3.3	192 ± 7.1	198 ± 6.4	158 ± 6.7
100.0	171 ± 4.0	163 ± 7.1	202 ± 12.2	176 ± 6.8	167 ± 15.8
166.0		124 ± 11.0			
333.0	0 ± 0.0[s]		181 ± 7.1	146 ± 23.0	170 ± 12.5
1000.0			152 ± 9.7	154 ± 15.4	140 ± 7.6
1666.0			72 ± 6.2[s]		55 ± 35.2[s]
3333.0				0 ± 0.0[s]	
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control[2]					620 ± 34.7
Positive Control[3]			617 ± 4.7		
Positive Control[5]				454 ± 25.6	
Positive Control[6]	415 ± 11.2	388 ± 27.1			

Experiment Number: **663851**

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

G06: Ames Summary Data

Test Compound: **t-Butylhydroquinone**

CAS Number: **1948-33-0**

Date Report Requested: **09/11/2018**

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	163 ± 15.2
3.0	
10.0	
33.0	228 ± 3.8
100.0	218 ± 19.8
166.0	
333.0	150 ± 6.1
1000.0	160 ± 10.3
1666.0	
3333.0	0 ± 0.0[s]
Trial Summary	Equivocal
Positive Control[2]	
Positive Control[3]	368 ± 24.9
Positive Control[5]	
Positive Control[6]	

Experiment Number: **663851**

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

G06: Ames Summary Data

Test Compound: **t-Butylhydroquinone**

CAS Number: **1948-33-0**

Date Report Requested: **09/11/2018**

Time Report Requested: **11:54:56**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control[1]	32 ± 2.6	22 ± 1.2	27 ± 0.9	20 ± 2.3	38 ± 3.8
3.0		19 ± 1.9	25 ± 0.3	19 ± 1.0	
10.0	26 ± 0.7	25 ± 4.9	27 ± 0.7	21 ± 2.3	
33.0	24 ± 3.8	21 ± 2.5	87 ± 5.5	16 ± 4.9	36 ± 2.0
100.0	24 ± 1.9	20 ± 0.6	11 ± 1.2[s]	14 ± 3.1	36 ± 3.3
166.0		30 ± 4.5	0 ± 0.0[s]	4 ± 2.3[s]	
333.0	Toxic				36 ± 4.2
666.0	Toxic				
1000.0					27 ± 0.7
1666.0					14 ± 3.2[s]
3333.0					
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control[2]					
Positive Control[3]					197 ± 20.1
Positive Control[7]	474 ± 22.1	505 ± 19.5	487 ± 44.2	537 ± 36.4	

Experiment Number: **663851**

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

G06: Ames Summary Data

Test Compound: **t-Butylhydroquinone**

CAS Number: **1948-33-0**

Date Report Requested: **09/11/2018**

Time Report Requested: **11:54:56**

Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control[1]	38 ± 1.9	35 ± 7.8	30 ± 1.2
3.0			
10.0			
33.0	40 ± 2.7	33 ± 3.8	25 ± 3.2
100.0	34 ± 5.2	35 ± 2.0	42 ± 6.0
166.0			
333.0	31 ± 3.2	26 ± 2.3	37 ± 2.5
666.0			
1000.0	15 ± 3.5	23 ± 1.8	26 ± 5.5
1666.0		4 ± 0.9[s]	
3333.0	Toxic		0 ± 0.0[s]
Trial Summary	Negative	Negative	Negative
Positive Control[2]		725 ± 35.2	
Positive Control[3]	192 ± 3.2		489 ± 16.0
Positive Control[7]			

Experiment Number: **663851**

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

G06: Ames Summary Data

Test Compound: **t-Butylhydroquinone**

CAS Number: **1948-33-0**

Date Report Requested: **09/11/2018**

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Strain: TA102

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control[1]	309 ± 25.5	202 ± 12.4	233 ± 7.1	189 ± 3.1	342 ± 18.5
3.0	319 ± 18.6	213 ± 5.8		185 ± 7.2	
10.0	323 ± 9.8	187 ± 9.2		175 ± 16.3	
33.0	267 ± 25.5	166 ± 3.6	279 ± 19.7	145 ± 6.7	370 ± 40.1
100.0	234 ± 12.3	180 ± 7.1	238 ± 16.5	143 ± 4.5	363 ± 25.4
166.0		191 ± 10.0			
333.0	128 ± 21.4[s]		169 ± 11.5	167 ± 6.8	363 ± 21.1
1000.0			58 ± 9.1		277 ± 12.7
1666.0			31 ± 4.3		
3333.0					22 ± 3.2[s]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[8]	1433 ± 26.6	565 ± 18.7			
Positive Control[9]			1239 ± 25.6	939 ± 10.5	2633 ± 58.1

Experiment Number: **663851**

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

G06: Ames Summary Data

Test Compound: **t-Butylhydroquinone**

CAS Number: **1948-33-0**

Date Report Requested: **09/11/2018**

Time Report Requested: **11:54:56**

Strain: TA102

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control[1]	249 ± 11.0	122 ± 2.6	331 ± 25.3
3.0		135 ± 13.0	
10.0		127 ± 4.0	
33.0	227 ± 18.5	135 ± 10.6	372 ± 27.1
100.0	224 ± 10.8	129 ± 4.8	348 ± 10.8
166.0			
333.0	188 ± 13.5	150 ± 8.7	328 ± 12.0
1000.0	63 ± 11.5		200 ± 10.5
1666.0	0 ± 0.0		
3333.0			0 ± 0.0[s]
Trial Summary	Negative	Negative	Negative
Positive Control[8]			
Positive Control[9]	604 ± 165.4	332 ± 29.4	2127 ± 104.3

LEGEND

Values given as Mean or Mean ± 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: 0.5 ug/Plate 2-Aminoanthracene
3: 1.0 ug/Plate 2-Aminoanthracene
4: 1.0 ug/Plate Sodium Azide
5: 2.5 ug/Plate 2-Aminoanthracene
6: 50.0 ug/Plate 9-Aminoacridine
7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
8: 0.5 ug/Plate Mitomycin-C
9: 10.0 ug/Plate Sterigmatocystin
s: Slight Toxicity

** END OF REPORT **