

Experiment Number: 356096

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

G06: Ames Summary Data

Test Compound: **Di-tert-butyl peroxide**

CAS Number: **110-05-4**

Date Report Requested: **09/13/2018**

Time Report Requested: **16:19:23**

NTP Study Number:

356096

Study Result:

Negative

Experiment Number: 356096

Test Type: Genetic Toxicology - Bacterial
Mutagenicity**G06: Ames Summary Data**

Test Compound: Di-tert-butyl peroxide

CAS Number: 110-05-4

Date Report Requested: 09/13/2018

Time Report Requested: 16:19:23

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	149 ± 10.8	123 ± 7.5	98 ± 4.0	100 ± 2.0	131 ± 7.1
10.0	124 ± 9.5	117 ± 15.0			
33.0	125 ± 6.7	104 ± 14.3			
100.0	113 ± 5.4	110 ± 4.9	90 ± 4.3	95 ± 4.3	100 ± 1.2
333.0	112 ± 6.8	110 ± 8.5	105 ± 1.5	108 ± 5.6	114 ± 8.6
666.0	130 ± 3.3	102 ± 9.5			
1000.0			89 ± 6.2	96 ± 7.1	120 ± 9.5
3333.0			88 ± 6.4	107 ± 8.2	118 ± 6.8
6666.0			80 ± 5.7	104 ± 7.2	
10000.0					87 ± 8.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1178 ± 3.5	613 ± 34.7	1178 ± 3.5
Positive Control ³	451 ± 5.3	413 ± 18.5			

Experiment Number: 356096

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Di-tert-butyl peroxide
CAS Number: 110-05-4

Date Report Requested: 09/13/2018

Time Report Requested: 16:19:23

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	133 ± 7.4
10.0	
33.0	
100.0	152 ± 14.0
333.0	143 ± 2.7
666.0	
1000.0	106 ± 2.4
3333.0	126 ± 12.7
6666.0	
10000.0	96 ± 11.3
Trial Summary	Negative
Positive Control ²	366 ± 33.8
Positive Control ³	

Experiment Number: 356096

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Di-tert-butyl peroxide

CAS Number: 110-05-4

Date Report Requested: 09/13/2018

Time Report Requested: 16:19:23

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	19 ± 3.8	16 ± 2.3	11 ± 1.9	11 ± 2.0	9 ± 1.2
10.0	20 ± 3.2	17 ± 1.5			
33.0	13 ± 2.9	22 ± 3.1			
100.0	23 ± 3.0	21 ± 6.1	11 ± 1.7	11 ± 2.2	6 ± 1.5
333.0	14 ± 4.2	13 ± 2.3	6 ± 1.7	10 ± 1.2	7 ± 0.9
666.0	16 ± 1.5	19 ± 1.5			
1000.0			7 ± 0.9	8 ± 0.9	8 ± 1.9
3333.0			7 ± 0.6	10 ± 2.4	8 ± 1.5
6666.0			7 ± 0.7	11 ± 0.9	
10000.0					8 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	459 ± 20.4	424 ± 37.3			
Positive Control ⁴			259 ± 10.7	195 ± 8.5	513 ± 50.6

Experiment Number: 356096

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Di-tert-butyl peroxide

CAS Number: 110-05-4

Date Report Requested: 09/13/2018

Time Report Requested: 16:19:23

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	13 ± 2.0
10.0	
33.0	
100.0	6 ± 1.5
333.0	11 ± 3.2
666.0	
1000.0	7 ± 0.7
3333.0	8 ± 3.1
6666.0	
10000.0	8 ± 1.7
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	427 ± 63.5

Experiment Number: 356096

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Di-tert-butyl peroxide

CAS Number: 110-05-4

Date Report Requested: 09/13/2018

Time Report Requested: 16:19:23

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	167 ± 3.2	149 ± 12.1	180 ± 15.5	203 ± 16.9	168 ± 14.7
10.0	171 ± 4.5	165 ± 10.4			
33.0	160 ± 3.8	158 ± 8.1			
100.0	176 ± 12.3	152 ± 9.5	229 ± 6.6	193 ± 4.2	170 ± 4.4
333.0	152 ± 7.7	159 ± 14.1	244 ± 1.2	189 ± 11.2	195 ± 11.6
666.0	169 ± 7.9	150 ± 11.0			
1000.0			198 ± 11.5	143 ± 10.1	160 ± 8.2
3333.0			187 ± 2.5	136 ± 11.9	168 ± 3.4
6666.0			166 ± 10.7	150 ± 13.5	
10000.0					149 ± 15.9
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ⁴			1017 ± 18.3	530 ± 24.3	1180 ± 62.1
Positive Control ⁵	2023 ± 223.0	1294 ± 105.1			

Experiment Number: 356096

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Di-tert-butyl peroxide

CAS Number: 110-05-4

Date Report Requested: 09/13/2018

Time Report Requested: 16:19:23

Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	149 ± 7.0
10.0	
33.0	
100.0	
333.0	186 ± 14.7
666.0	
1000.0	206 ± 6.3
3333.0	225 ± 7.0
6666.0	203 ± 3.7
10000.0	209 ± 5.2
Trial Summary	Equivocal
Positive Control ⁴	755 ± 22.8
Positive Control ⁵	

Experiment Number: 356096

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Di-tert-butyl peroxide

CAS Number: 110-05-4

Date Report Requested: 09/13/2018

Time Report Requested: 16:19:23

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	20 ± 4.5	21 ± 1.8	26 ± 1.7	28 ± 1.5	36 ± 3.1
10.0	13 ± 2.4	15 ± 2.5			
33.0	15 ± 2.4	17 ± 0.0			
100.0	15 ± 1.2	19 ± 2.8	24 ± 4.3	24 ± 3.3	29 ± 3.9
333.0	9 ± 2.6	18 ± 0.7	21 ± 3.2	24 ± 2.3	25 ± 2.0
666.0	11 ± 2.6	16 ± 0.3			
1000.0			22 ± 4.2	27 ± 2.9	25 ± 3.8
3333.0			22 ± 0.9	29 ± 1.2	23 ± 3.2
6666.0			20 ± 2.3	26 ± 3.5	
10000.0					17 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			945 ± 52.1	358 ± 22.5	945 ± 52.1
Positive Control ⁶	1260 ± 95.4	950 ± 59.1			

Experiment Number: 356096

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Di-tert-butyl peroxide

CAS Number: 110-05-4

Date Report Requested: 09/13/2018

Time Report Requested: 16:19:23

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	19 ± 1.0
10.0	
33.0	
100.0	
333.0	22 ± 1.0
666.0	
1000.0	22 ± 2.3
3333.0	28 ± 3.5
6666.0	27 ± 5.2
10000.0	30 ± 6.4
Trial Summary	Negative
Positive Control ²	208 ± 20.2
Positive Control ⁶	

Experiment Number: 356096

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

G06: Ames Summary Data

Test Compound: **Di-tert-butyl peroxide**

CAS Number: **110-05-4**

Date Report Requested: **09/13/2018**

Time Report Requested: **16:19:23**

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: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****