Experiment Number: **312310**

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

G06: Ames Summary Data

Test Compound: **bis t-Butyldioxyisopropylbenzene**

CAS Number: **25155-25-3**

Date Report Requested: **09/12/2018**

Time Report Requested: **04:05:04**

NTP Study Number: 312310

Study Result: Negative

Experiment Number: **312310**

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

G06: Ames Summary Data

Test Compound: **bis t-Butyldioxyisopropylbenzene**

CAS Number: **25155-25-3**

Date Report Requested: **09/12/2018**

Time Report Requested: **04:05:04**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control[1]	105 ± 4.1	107 ± 9.8	106 ± 9.8	101 ± 4.0	86 ± 7.5
100.0	91 ± 8.0	106 ± 7.5	104 ± 3.9	97 ± 5.5	82 ± 3.1
333.0	91 ± 2.4	103 ± 12.1	97 ± 4.3	83 ± 0.9	81 ± 2.1
1000.0	86 ± 6.9	100 ± 6.0	101 ± 9.6	90 ± 5.2	72 ± 5.2
3333.0	83 ± 5.8	113 ± 10.4	102 ± 7.8	81 ± 3.8	77 ± 2.5
10000.0	98 ± 9.0[p]	93 ± 12.3	115 ± 5.7	99 ± 1.8[p]	93 ± 5.0[p]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]		181 ± 6.7			
Positive Control[3]			367 ± 18.5		
Positive Control[4]					
Positive Control[5]				2034 ± 17.6	
Positive Control[6]					467 ± 13.0
Positive Control[7]	1034 ± 31.8				

Experiment Number: **312310**

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

G06: Ames Summary Data

Test Compound: **bis t-Butyldioxyisopropylbenzene**

CAS Number: **25155-25-3**

Date Report Requested: **09/12/2018**

Time Report Requested: **04:05:04**

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control[1]	96 ± 8.0	99 ± 8.1
100.0	105 ± 16.8	97 ± 1.5
333.0	99 ± 6.7	86 ± 5.0
1000.0	88 ± 3.1	82 ± 1.7
3333.0	100 ± 10.7	79 ± 5.0
10000.0	105 ± 0.6[p]	87 ± 4.1[p]
Trial Summary	Negative	Negative
Positive Control[2]		
Positive Control[3]		
Positive Control[4]	1026 ± 10.4	
Positive Control[5]		
Positive Control[6]		892 ± 44.2
Positive Control[7]		

Experiment Number: **312310**

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

G06: Ames Summary Data

Test Compound: **bis t-Butyldioxyisopropylbenzene**

CAS Number: **25155-25-3**

Date Report Requested: **09/12/2018**

Time Report Requested: **04:05:04**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	13 ± 1.5	19 ± 2.1	9 ± 0.3	13 ± 0.3	8 ± 1.2
100.0	17 ± 3.0	15 ± 0.9	6 ± 0.9	10 ± 0.9	8 ± 1.5
333.0	9 ± 1.5	18 ± 1.2	9 ± 1.0	11 ± 1.7	8 ± 0.6
1000.0	15 ± 4.9	21 ± 1.5	10 ± 2.8	10 ± 1.9	11 ± 2.7
3333.0	12 ± 1.2	16 ± 3.5	11 ± 1.0	9 ± 2.3	8 ± 0.9
10000.0	9 ± 0.0[p]	9 ± 2.9[s]	8 ± 1.5[p]	7 ± 0.3[p]	8 ± 1.8[p]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]		61 ± 7.5			
Positive Control[4]					48 ± 5.7
Positive Control[5]			88 ± 4.5		
Positive Control[6]				102 ± 7.4	
Positive Control[7]	531 ± 18.8				

Experiment Number: **312310**

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

G06: Ames Summary Data

Test Compound: **bis t-Butyldioxyisopropylbenzene**

CAS Number: **25155-25-3**

Date Report Requested: **09/12/2018**

Time Report Requested: **04:05:04**

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	10 ± 1.5
100.0	11 ± 1.9
333.0	9 ± 1.2
1000.0	13 ± 2.3
3333.0	15 ± 3.0
10000.0	9 ± 1.0[p]
Trial Summary	Negative
Positive Control[2]	
Positive Control[4]	
Positive Control[5]	
Positive Control[6]	142 ± 2.9
Positive Control[7]	

Experiment Number: **312310**

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

G06: Ames Summary Data

Test Compound: **bis t-Butyldioxyisopropylbenzene**

CAS Number: **25155-25-3**

Date Report Requested: **09/12/2018**

Time Report Requested: **04:05:04**

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control[1]	93 ± 2.6	110 ± 6.3	63 ± 9.3	74 ± 2.9	95 ± 5.8
100.0	87 ± 7.8	114 ± 7.7	92 ± 6.2	103 ± 2.0	90 ± 5.7
333.0	88 ± 10.4	93 ± 4.0	83 ± 7.0	103 ± 6.8	104 ± 4.9
1000.0	101 ± 2.4	113 ± 1.5	101 ± 6.4	113 ± 3.5	106 ± 5.8
3333.0	85 ± 6.7	99 ± 4.7	101 ± 11.3	125 ± 6.1	113 ± 4.7
10000.0	99 ± 3.2	99 ± 4.9[s]	99 ± 3.1[p]	123 ± 2.6[p]	118 ± 7.6
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control[8]					
Positive Control[5]			891 ± 17.0	1210 ± 23.8	
Positive Control[6]					1439 ± 136.0
Positive Control[9]	335 ± 10.3	183 ± 4.0			
Positive Control[10]					

Experiment Number: **312310**

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

G06: Ames Summary Data

Test Compound: **bis t-Butyldioxyisopropylbenzene**

CAS Number: **25155-25-3**

Date Report Requested: **09/12/2018**

Time Report Requested: **04:05:04**

Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control[1]	160 ± 9.1	119 ± 5.0	171 ± 9.0
100.0	157 ± 0.9	108 ± 12.3	169 ± 10.5
333.0	157 ± 6.8	108 ± 4.7	151 ± 10.1
1000.0	168 ± 5.0	108 ± 6.4	133 ± 18.4
3333.0	164 ± 6.3	112 ± 2.4	135 ± 6.2
10000.0	160 ± 8.3	129 ± 8.4[p]	138 ± 5.4
Trial Summary	Negative	Negative	Negative
Positive Control[8]			291 ± 11.3
Positive Control[5]		514 ± 27.1	
Positive Control[6]	515 ± 25.5		
Positive Control[9]			
Positive Control[10]			

Experiment Number: **312310**

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

G06: Ames Summary Data

Test Compound: **bis t-Butyldioxyisopropylbenzene**

CAS Number: **25155-25-3**

Date Report Requested: **09/12/2018**

Time Report Requested: **04:05:04**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	14 ± 3.8	16 ± 2.7	25 ± 4.4	33 ± 2.3	22 ± 2.6
100.0	17 ± 2.0	9 ± 0.7	24 ± 1.8	30 ± 4.5	26 ± 3.9
333.0	12 ± 1.5	18 ± 2.1	27 ± 2.7	40 ± 3.3	25 ± 4.0
1000.0	12 ± 2.8	16 ± 3.2	23 ± 4.2	33 ± 6.0	27 ± 4.2
3333.0	15 ± 2.0	15 ± 1.7	22 ± 0.3	34 ± 3.8	22 ± 4.9
10000.0	15 ± 2.5[p]	16 ± 0.9	28 ± 4.3[p]	33 ± 4.7[p]	24 ± 2.2[p]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[4]					538 ± 13.1
Positive Control[11]		158 ± 2.7			
Positive Control[5]			866 ± 22.7		
Positive Control[6]				311 ± 17.6	
Positive Control[12]	1703 ± 53.5				

Experiment Number: **312310**

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

G06: Ames Summary Data

Test Compound: **bis t-Butyldioxyisopropylbenzene**

CAS Number: **25155-25-3**

Date Report Requested: **09/12/2018**

Time Report Requested: **04:05:04**

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	34 ± 4.7
100.0	41 ± 3.2
333.0	40 ± 3.4
1000.0	38 ± 3.1
3333.0	40 ± 4.1
10000.0	35 ± 1.5[p]
Trial Summary	Negative
Positive Control[4]	
Positive Control[11]	
Positive Control[5]	
Positive Control[6]	509 ± 14.2
Positive Control[12]	

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: Acetone
2: 0.25 ug/Plate Sodium Azide
3: 0.5 ug/Plate Sodium Azide
4: 0.75 ug/Plate 2-Aminoanthracene
5: 1.5 ug/Plate 2-Aminoanthracene
6: 2.0 ug/Plate 2-Aminoanthracene
7: 2.5 ug/Plate Sodium Azide
8: 1.0 ug/Plate 2-Aminoanthracene
9: 3.5 ug/Plate 9-Aminoacridine
10: 4.0 ug/Plate 9-Aminoacridine
11: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine
12: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine
p: Precipitate
s: Slight Toxicity

** END OF REPORT **