Experiment Number: **295295**

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

G06: Ames Summary Data

Test Compound: **n-Butane**

CAS Number: **106-97-8**

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

Time Report Requested: **21:26:00**

NTP Study Number: 295295

Study Result: Negative

Experiment Number: **295295**

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

G06: Ames Summary Data

Test Compound: **n-Butane**

CAS Number: **106-97-8**

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

Time Report Requested: **21:26:00**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	151 ± 3.2	142 ± 8.4	147 ± 5.4	205 ± 2.1	156 ± 8.3
0.0					
230 ± 10.0	0.001	152 ± 11.1	143 ± 1.2	158 ± 0.7	217 ± 3.3
175 ± 10.1	0.002	147 ± 5.0	138 ± 8.5	160 ± 5.7	186 ± 5.9
185 ± 3.0	0.007	133 ± 6.6	128 ± 2.7	165 ± 7.3	177 ± 1.7
197 ± 8.5	0.013	129 ± 5.5	117 ± 5.4	120 ± 7.8	157 ± 8.0
	0.027	105 ± 8.1	92 ± 6.5	99 ± 2.0	142 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					1742 ± 33.2
Positive Control[3]	338 ± 13.6	489 ± 3.3			
Positive Control[4]			956 ± 30.8		
Positive Control[5]					
Positive Control[6]				823 ± 4.7	

Experiment Number: **295295**

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

G06: Ames Summary Data

Test Compound: **n-Butane**

CAS Number: **106-97-8**

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

Time Report Requested: **21:26:00**

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control[1]	225 ± 11.9	240 ± 1.2
0.0		241 ± 22.8
230 ± 10.0	147 ± 10.0	372 ± 20.2
175 ± 10.1	148 ± 0.5	165 ± 3.8
185 ± 3.0	150 ± 9.0	173 ± 4.2
197 ± 8.5	127 ± 4.3	149 ± 11.1
	110 ± 9.5	157 ± 6.6
Trial Summary	Equivocal	Negative
Positive Control[2]		
Positive Control[3]		
Positive Control[4]		
Positive Control[5]	634 ± 15.9	549 ± 3.8
Positive Control[6]		

Experiment Number: **295295**

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

G06: Ames Summary Data

Test Compound: **n-Butane**

CAS Number: **106-97-8**

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

Time Report Requested: **21:26:00**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control[1]	10 ± 2.2	14 ± 2.0	11 ± 2.6	14 ± 2.3	16 ± 2.6
0.001	13 ± 2.7	11 ± 1.5	14 ± 1.2	12 ± 0.9	9 ± 1.2
0.002	9 ± 0.9	8 ± 1.3	11 ± 1.2	4 ± 0.6[s]	15 ± 0.3
0.007	11 ± 2.3	16 ± 1.5	11 ± 0.3	2 ± 0.3[s]	15 ± 2.2
0.013	6 ± 1.2	10 ± 4.1	9 ± 2.8	11 ± 1.9	14 ± 0.9
0.027	Toxic	11 ± 1.7	12 ± 1.5	12 ± 2.2	14 ± 1.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					
Positive Control[3]	294 ± 17.1	234 ± 43.4	267 ± 16.5		
Positive Control[5]					
Positive Control[6]				174 ± 15.9	113 ± 9.4

Experiment Number: **295295**

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

G06: Ames Summary Data

Test Compound: **n-Butane**

CAS Number: **106-97-8**

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

Time Report Requested: **21:26:00**

Strain: TA1535

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control[1]	15 ± 3.7	20 ± 0.9	13 ± 3.0	23 ± 0.6	16 ± 3.2
0.001	13 ± 1.7	16 ± 2.7	12 ± 1.7	19 ± 0.6	12 ± 4.4
0.002	18 ± 3.5	14 ± 2.0	11 ± 2.3	23 ± 1.3	13 ± 0.7
0.007	23 ± 1.3	17 ± 3.2	15 ± 0.3	22 ± 2.2	16 ± 2.0
0.013	14 ± 0.6	14 ± 0.7	13 ± 0.9	16 ± 1.8	13 ± 1.5
0.027	Toxic	13 ± 2.0	14 ± 2.3	Toxic	13 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			152 ± 10.5		
Positive Control[3]					
Positive Control[5]				80 ± 4.6	131 ± 4.8
Positive Control[6]	88 ± 15.3	143 ± 10.7			

Experiment Number: **295295**

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

G06: Ames Summary Data

Test Compound: **n-Butane**

CAS Number: **106-97-8**

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

Time Report Requested: **21:26:00**

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	170 ± 7.5	179 ± 6.7	237 ± 7.2	240 ± 10.2	219 ± 3.2
0.001	166 ± 4.0	117 ± 6.6	212 ± 6.4	253 ± 5.0	232 ± 9.5
0.002	169 ± 4.4	147 ± 2.3	205 ± 3.2	235 ± 16.3	199 ± 7.5
0.007	163 ± 8.3	159 ± 3.5	198 ± 5.8	235 ± 19.8	203 ± 6.9
0.013	155 ± 7.5	169 ± 8.7	174 ± 2.0	211 ± 13.5	175 ± 9.5
0.027	116 ± 9.9	172 ± 1.2	156 ± 9.1	164 ± 5.8	166 ± 13.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[4]					2469 ± 14.8
Positive Control[6]			2032 ± 112.3	565 ± 18.9	
Positive Control[7]	416 ± 13.2	382 ± 13.7			

Experiment Number: **295295**

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

G06: Ames Summary Data

Test Compound: **n-Butane**

CAS Number: **106-97-8**

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

Time Report Requested: **21:26:00**

Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	219 ± 12.1
0.001	223 ± 12.2
0.002	185 ± 5.0
0.007	174 ± 10.6
0.013	175 ± 7.7
0.027	152 ± 11.4
Trial Summary	Negative
Positive Control[4]	
Positive Control[6]	965 ± 69.1
Positive Control[7]	

Experiment Number: **295295**

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

G06: Ames Summary Data

Test Compound: **n-Butane**

CAS Number: **106-97-8**

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

Time Report Requested: **21:26:00**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	24 ± 3.0	15 ± 1.2	21 ± 1.2	38 ± 3.6	26 ± 3.2
0.001	23 ± 4.9	15 ± 2.6	26 ± 2.6	26 ± 5.5	23 ± 5.6
0.002	21 ± 2.5	20 ± 2.7	23 ± 4.2	32 ± 2.6	26 ± 1.5
0.007	25 ± 1.8	20 ± 3.3	27 ± 2.1	23 ± 1.9	24 ± 1.5
0.013	25 ± 2.8	17 ± 1.5	24 ± 1.7	30 ± 1.5	17 ± 1.2
0.027	21 ± 1.2	11 ± 1.5	22 ± 1.0	20 ± 4.7	17 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			354 ± 19.2		1849 ± 38.5
Positive Control[5]				184 ± 5.7	
Positive Control[8]	299 ± 5.8	289 ± 42.5			

Experiment Number: **295295**

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

G06: Ames Summary Data

Test Compound: **n-Butane**

CAS Number: **106-97-8**

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

Time Report Requested: **21:26:00**

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	27 ± 5.0
0.001	31 ± 6.2
0.002	29 ± 3.4
0.007	26 ± 2.9
0.013	15 ± 0.9
0.027	12 ± 1.9
Trial Summary	Negative
Positive Control[2]	
Positive Control[5]	387 ± 10.7
Positive Control[8]	

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: Air
2: 0.4 ug/Plate 2-Aminoanthracene
3: 0.5 ug/Plate Sodium Azide
4: 0.75 ug/Plate 2-Aminoanthracene
5: 1.0 ug/Plate 2-Aminoanthracene
6: 2.0 ug/Plate 2-Aminoanthracene
7: 24.0 ug/Plate 9-Aminoacridine
8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine
s: Slight Toxicity

** END OF REPORT **