Experiment Number: **300619**

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

G06: Ames Summary Data

Test Compound: **4-Chloronitrobenzene**

CAS Number: **100-00-5**

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

Time Report Requested: **22:09:37**

NTP Study Number: 300619

Study Result: Positive

Experiment Number: **300619**

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

G06: Ames Summary Data

Test Compound: **4-Chloronitrobenzene**

CAS Number: **100-00-5**

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

Time Report Requested: **22:09:37**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control[1]	98 ± 3.3	128 ± 3.3	117 ± 13.3	101 ± 3.5	98 ± 9.2
30.0	93 ± 3.8	150 ± 5.0			94 ± 2.6
62.5			99 ± 3.5	118 ± 10.7	
100.0	93 ± 7.8	136 ± 5.8			108 ± 3.5
250.0			99 ± 2.6	107 ± 12.0	
300.0	82 ± 5.5	116 ± 4.4			129 ± 6.7
500.0			81 ± 6.0[s]	132 ± 4.1	
1000.0	81 ± 4.1	114 ± 4.7	94 ± 4.3[s]	114 ± 4.8	192 ± 3.3
1500.0			69 ± 4.4[s]	117 ± 10.5	
2000.0			61 ± 4.4[s]	94 ± 10.2	
3000.0	28 ± 9.0	25 ± 13.9[s]			57 ± 17.8
Trial Summary	Negative	Negative	Negative	Negative	Weakly Positive
Positive Control[2]					
Positive Control[3]					
Positive Control[4]					2356 ± 38.1
Positive Control[5]	1270 ± 4.5	1987 ± 29.7	2321 ± 123.2		
Positive Control[6]				1217 ± 103.7	

Experiment Number: **300619**

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

G06: Ames Summary Data

Test Compound: **4-Chloronitrobenzene**

CAS Number: **100-00-5**

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

Time Report Requested: **22:09:37**

Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control[1]	113 ± 10.2	126 ± 13.2	118 ± 10.3	117 ± 7.2	105 ± 6.7
30.0	138 ± 0.3			137 ± 12.3	131 ± 5.8
62.5		128 ± 3.7	137 ± 6.6		
100.0	143 ± 5.4			152 ± 7.8	136 ± 4.4
250.0		156 ± 8.4	155 ± 6.1		
300.0	172 ± 12.6			152 ± 17.6	147 ± 6.5
500.0		185 ± 6.6	176 ± 5.9[s]		
1000.0	201 ± 21.1	215 ± 11.7	183 ± 6.1[s]	255 ± 28.0	178 ± 4.5[s]
1500.0		203 ± 12.5	168 ± 6.3[s]		
2000.0		194 ± 0.7	174 ± 0.9[s]		
3000.0	37 ± 22.9[s]			25 ± 17.4[s]	98 ± 14.2[s]
Trial Summary	Weakly Positive	Weakly Positive	Weakly Positive	Weakly Positive	Weakly Positive
Positive Control[2]				3212 ± 76.1	2032 ± 30.8
Positive Control[3]		2080 ± 16.3			
Positive Control[4]	1264 ± 52.9		2232 ± 45.4		
Positive Control[5]					
Positive Control[6]					

Experiment Number: **300619**

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

G06: Ames Summary Data

Test Compound: **4-Chloronitrobenzene**

CAS Number: **100-00-5**

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

Time Report Requested: **22:09:37**

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control[1]	112 ± 3.7	104 ± 9.3
30.0		
62.5	132 ± 7.1	135 ± 4.6
100.0		
250.0	158 ± 13.7	171 ± 5.6
300.0		
500.0	200 ± 11.0[s]	301 ± 14.6
1000.0	235 ± 20.3[s]	400 ± 16.5
1500.0	189 ± 11.6[s]	344 ± 16.0[s]
2000.0	148 ± 15.2[s]	68 ± 38.3[s]
3000.0		
Trial Summary	Positive	Positive
Positive Control[2]	3005 ± 74.6	
Positive Control[3]		3663 ± 158.3
Positive Control[4]		
Positive Control[5]		
Positive Control[6]		

Experiment Number: **300619**

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

G06: Ames Summary Data

Test Compound: **4-Chloronitrobenzene**

CAS Number: **100-00-5**

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

Time Report Requested: **22:09:37**

Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	12 ± 2.1	9 ± 1.2	9 ± 2.3
30.0	11 ± 2.3	11 ± 0.3	8 ± 1.2
100.0	9 ± 1.2	8 ± 1.2	12 ± 0.6
300.0	13 ± 0.6	6 ± 0.7	15 ± 1.8
1000.0	13 ± 1.5	15 ± 1.8	14 ± 1.5
3000.0	8 ± 1.5	10 ± 1.9	3 ± 2.0[s]
Trial Summary	Negative	Negative	Negative
Positive Control[2]			189 ± 31.8
Positive Control[4]		87 ± 19.2	
Positive Control[5]	929 ± 43.8		

Experiment Number: **300619**

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

G06: Ames Summary Data

Test Compound: **4-Chloronitrobenzene**

CAS Number: **100-00-5**

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

Time Report Requested: **22:09:37**

Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	6 ± 1.5	9 ± 1.2	6 ± 0.3
30.0	8 ± 0.9	10 ± 1.5	10 ± 0.6
100.0	6 ± 1.5	5 ± 1.5	8 ± 2.3
300.0	5 ± 1.2	7 ± 0.3	8 ± 1.7
1000.0	5 ± 0.9	7 ± 1.8	7 ± 1.0
3000.0	2 ± 1.2	3 ± 2.2	5 ± 1.8[s]
Trial Summary	Negative	Negative	Negative
Positive Control[2]			298 ± 11.7
Positive Control[4]		158 ± 6.1	
Positive Control[7]	320 ± 29.3		

Experiment Number: **300619**

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

G06: Ames Summary Data

Test Compound: **4-Chloronitrobenzene**

CAS Number: **100-00-5**

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

Time Report Requested: **22:09:37**

Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	17 ± 1.8	26 ± 1.5	29 ± 3.3
30.0	17 ± 2.0	17 ± 2.8	25 ± 3.2
100.0	22 ± 4.3	22 ± 5.3	25 ± 3.2
300.0	21 ± 1.5	25 ± 0.7	25 ± 3.2
1000.0	18 ± 2.0	15 ± 2.7	45 ± 6.1
3000.0	10 ± 0.3	9 ± 2.0	24 ± 4.9
Trial Summary	Negative	Negative	Negative
Positive Control[2]			2739 ± 69.7
Positive Control[4]		2270 ± 61.5	
Positive Control[8]	1444 ± 58.4		

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: 0.75 ug/Plate 2-Aminoanthracene
3: 1.0 ug/Plate 2-Aminoanthracene
4: 1.5 ug/Plate 2-Aminoanthracene
5: 2.5 ug/Plate Sodium Azide
6: 56.6 ug/Plate Solvent
7: 80.0 ug/Plate 9-Aminoacridine
8: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine
s: Slight Toxicity

** END OF REPORT **