Experiment Number: **404019**

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

G06: Ames Summary Data

Test Compound: **3,4-Dichloronitrobenzene**

CAS Number: **99-54-7**

Date Report Requested: **09/14/2018**

Time Report Requested: **17:01:11**

NTP Study Number: 404019

Study Result: Positive

Experiment Number: **404019**

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

G06: Ames Summary Data

Test Compound: **3,4-Dichloronitrobenzene**

CAS Number: **99-54-7**

Date Report Requested: **09/14/2018**

Time Report Requested: **17:01:11**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control[1]	142 ± 5.0	132 ± 1.5	141 ± 10.5	125 ± 14.5	110 ± 3.7
2.0	160 ± 5.9	129 ± 3.9			115 ± 5.8
6.25			126 ± 2.4		
6.7	155 ± 14.5	126 ± 2.1			123 ± 1.5
12.5				133 ± 10.0	
20.0	166 ± 3.5	136 ± 9.0			153 ± 6.1
31.25			137 ± 3.6		
62.5			156 ± 8.4	169 ± 3.2	
66.7					
67.0	190 ± 5.2	164 ± 2.2			203 ± 3.8
125.0			162 ± 15.0[s]	207 ± 9.4	
200.0	Toxic	Toxic			283 ± 6.4
250.0			Toxic	214 ± 13.1	
500.0				243 ± 13.0	
Trial Summary	Equivocal	Negative	Negative	Weakly Positive	Positive
Positive Control[2]					
Positive Control[3]					
Positive Control[4]					2101 ± 59.5
Positive Control[5]	1270 ± 4.5	1987 ± 29.7	2482 ± 21.7		
Positive Control[6]				1025 ± 77.9	

Experiment Number: **404019**

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

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Test Compound: **3,4-Dichloronitrobenzene**

CAS Number: **99-54-7**

Date Report Requested: **09/14/2018**

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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]	116 ± 10.2	96 ± 3.5	104 ± 0.3	113 ± 4.0	112 ± 7.5
2.0	137 ± 1.8			121 ± 8.3	112 ± 15.8
6.25			134 ± 0.7		
6.7	145 ± 7.0			152 ± 6.6	147 ± 2.3
12.5		138 ± 10.4			
20.0	173 ± 2.0			194 ± 7.6	181 ± 7.2
31.25			172 ± 18.7		
62.5		186 ± 5.5	236 ± 9.1		
66.7				339 ± 22.8	
67.0	241 ± 20.1				220 ± 12.9
125.0		226 ± 25.2	263 ± 4.9		
200.0	279 ± 17.4[s]			789 ± 19.5[s]	431 ± 42.3[s]
250.0		297 ± 7.2	292 ± 40.5[s]		
500.0		388 ± 0.9			
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control[2]				3165 ± 65.3	2047 ± 30.5
Positive Control[3]		893 ± 6.4			
Positive Control[4]	1264 ± 52.9		974 ± 22.6		
Positive Control[5]					
Positive Control[6]					

Experiment Number: **404019**

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

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Test Compound: **3,4-Dichloronitrobenzene**

CAS Number: **99-54-7**

Date Report Requested: **09/14/2018**

Time Report Requested: **17:01:11**

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control[1]	113 ± 6.8	104 ± 7.2
2.0		
6.25	153 ± 11.5	
6.7		
12.5		184 ± 9.0
20.0		
31.25	212 ± 4.6	
62.5	282 ± 18.7	290 ± 12.3
66.7		
67.0		
125.0	308 ± 4.0	322 ± 17.6
200.0		
250.0	692 ± 82.9[s]	369 ± 17.4
500.0		460 ± 21.7
Trial Summary	Positive	Positive
Positive Control[2]	1516 ± 43.2	
Positive Control[3]		2507 ± 72.1
Positive Control[4]		
Positive Control[5]		
Positive Control[6]		

Experiment Number: **404019**

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

G06: Ames Summary Data

Test Compound: **3,4-Dichloronitrobenzene**

CAS Number: **99-54-7**

Date Report Requested: **09/14/2018**

Time Report Requested: **17:01:11**

Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	13 ± 1.5	10 ± 1.2	13 ± 0.7
2.0	10 ± 1.2	10 ± 0.3	14 ± 2.6
6.7	12 ± 0.6	9 ± 2.9	10 ± 2.3
20.0	10 ± 1.7	12 ± 1.3	10 ± 0.6
66.7			8 ± 2.2
67.0	10 ± 2.2	12 ± 1.2	
200.0	Toxic	11 ± 1.8	7 ± 1.9
Trial Summary	Negative	Negative	Negative
Positive Control[2]			119 ± 11.5
Positive Control[4]		87 ± 19.2	
Positive Control[5]	929 ± 43.8		

Experiment Number: **404019**

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

G06: Ames Summary Data

Test Compound: **3,4-Dichloronitrobenzene**

CAS Number: **99-54-7**

Date Report Requested: **09/14/2018**

Time Report Requested: **17:01:11**

Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	5 ± 1.2	5 ± 1.2	6 ± 1.7
2.0	2 ± 0.9	9 ± 0.9	10 ± 1.2
6.7	4 ± 1.3	10 ± 3.2	4 ± 1.5
20.0	6 ± 0.3	10 ± 1.2	6 ± 0.7
66.7			6 ± 1.7
67.0	7 ± 1.5	6 ± 1.3	
200.0	Toxic	5 ± 1.5[s]	2 ± 1.0[s]
Trial Summary	Negative	Negative	Negative
Positive Control[2]			344 ± 24.9
Positive Control[4]		161 ± 4.8	
Positive Control[7]	320 ± 29.3		

Experiment Number: **404019**

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

G06: Ames Summary Data

Test Compound: **3,4-Dichloronitrobenzene**

CAS Number: **99-54-7**

Date Report Requested: **09/14/2018**

Time Report Requested: **17:01:11**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	25 ± 2.3	19 ± 2.1	24 ± 1.9	26 ± 2.1	20 ± 3.7
2.0	27 ± 3.5	23 ± 1.2	26 ± 2.4	25 ± 2.9	20 ± 3.3
6.7	23 ± 1.2	21 ± 2.1	26 ± 4.6	27 ± 6.4	24 ± 4.4
20.0	34 ± 2.3	21 ± 1.5	28 ± 1.9	30 ± 2.0	30 ± 0.9
66.7					23 ± 2.6
67.0	25 ± 2.7	4 ± 1.2[s]	26 ± 3.3	25 ± 1.5	
200.0	Toxic	Toxic	23 ± 2.0	25 ± 4.2	42 ± 9.4[s]
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control[2]					2110 ± 100.2
Positive Control[4]			2270 ± 61.5	1075 ± 53.4	
Positive Control[8]	1444 ± 58.4	2378 ± 44.8			

Experiment Number: **404019**

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

G06: Ames Summary Data

Test Compound: **3,4-Dichloronitrobenzene**

CAS Number: **99-54-7**

Date Report Requested: **09/14/2018**

Time Report Requested: **17:01:11**

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control[1]	20 ± 3.7	25 ± 0.9
2.0	20 ± 3.3	22 ± 0.3
6.7	24 ± 4.4	23 ± 5.0
20.0	30 ± 0.9	24 ± 2.7
66.7	23 ± 2.6	
67.0		24 ± 2.7
200.0	42 ± 9.4[s]	24 ± 2.0[s]
Trial Summary	Equivocal	Negative
Positive Control[2]	2277 ± 252.0	1978 ± 127.3
Positive Control[4]		
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: 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 **