Experiment Number: **695748**

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

G06: Ames Summary Data

Test Compound: **1,3-Dichloro-5,5-dimethylhydantoin**

CAS Number: **118-52-5**

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

Time Report Requested: **18:11:32**

NTP Study Number: 695748

Study Result: Negative

Experiment Number: **695748**

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

G06: Ames Summary Data

Test Compound: **1,3-Dichloro-5,5-dimethylhydantoin**

CAS Number: **118-52-5**

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

Time Report Requested: **18:11:32**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	136 ± 9.8	122 ± 7.8	139 ± 21.1	121 ± 11.2	135 ± 13.5
0.1	124 ± 4.5	114 ± 3.5			
0.3	134 ± 3.8	117 ± 21.8			
1.0	132 ± 5.1	130 ± 6.7		112 ± 6.1	
3.3	111 ± 10.3	128 ± 7.4	143 ± 1.9	119 ± 8.3	129 ± 3.3
10.0	95 ± 16.6[s]	80 ± 15.1[s]	101 ± 10.8	116 ± 9.1	133 ± 3.4
33.0			132 ± 1.5	115 ± 10.7	135 ± 16.2
100.0			113 ± 4.4[s]	62 ± 22.2[s]	149 ± 9.8
220.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					1615 ± 30.9
Positive Control[3]			1069 ± 32.0	2174 ± 88.2	
Positive Control[4]	2347 ± 3.2	4025 ± 73.4			

Experiment Number: **695748**

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

G06: Ames Summary Data

Test Compound: **1,3-Dichloro-5,5-dimethylhydantoin**

CAS Number: **118-52-5**

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

Time Report Requested: **18:11:32**

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	125 ± 10.5
0.1	
0.3	
1.0	118 ± 4.8
3.3	126 ± 2.5
10.0	125 ± 9.8
33.0	137 ± 4.1
100.0	127 ± 40.5[s]
220.0	
Trial Summary	Negative
Positive Control[2]	3024 ± 175.7
Positive Control[3]	
Positive Control[4]	

Experiment Number: **695748**

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

G06: Ames Summary Data

Test Compound: **1,3-Dichloro-5,5-dimethylhydantoin**

CAS Number: **118-52-5**

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

Time Report Requested: **18:11:32**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	29 ± 2.6	25 ± 3.2	21 ± 3.8	17 ± 4.2	19 ± 5.8
0.1	31 ± 2.2	27 ± 1.7			
0.3	32 ± 5.5	37 ± 3.2			
1.0	23 ± 2.3	27 ± 2.5		23 ± 2.3	
3.3	27 ± 1.5	29 ± 5.0	19 ± 4.6	17 ± 1.9	17 ± 1.5
10.0	21 ± 5.0[s]	Toxic	15 ± 2.9	19 ± 2.3	17 ± 1.5
33.0			20 ± 1.3	16 ± 0.9	24 ± 0.6
100.0			22 ± 4.7	Toxic	28 ± 3.1[s]
220.0			Toxic		26 ± 5.5[s]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					132 ± 2.3
Positive Control[3]			62 ± 8.5	154 ± 11.0	
Positive Control[4]	2059 ± 29.9	3842 ± 48.3			

Experiment Number: **695748**

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

G06: Ames Summary Data

Test Compound: **1,3-Dichloro-5,5-dimethylhydantoin**

CAS Number: **118-52-5**

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

Time Report Requested: **18:11:32**

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	19 ± 1.8
0.1	
0.3	
1.0	16 ± 1.9
3.3	17 ± 2.1
10.0	18 ± 2.6
33.0	20 ± 1.2
100.0	Toxic
220.0	
Trial Summary	Negative
Positive Control[2]	264 ± 8.9
Positive Control[3]	
Positive Control[4]	

Experiment Number: **695748**

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

G06: Ames Summary Data

Test Compound: **1,3-Dichloro-5,5-dimethylhydantoin**

CAS Number: **118-52-5**

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

Time Report Requested: **18:11:32**

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	6 ± 2.6	6 ± 1.0	8 ± 2.0	10 ± 3.6	7 ± 1.7
0.1	6 ± 1.5	8 ± 2.7			
0.3	5 ± 0.7	5 ± 0.9			
1.0	3 ± 0.6	8 ± 0.6		8 ± 2.6	
3.3	7 ± 1.8	8 ± 1.5	8 ± 1.9	6 ± 2.3	7 ± 1.2
10.0	5 ± 1.0[s]	3 ± 0.9[s]	6 ± 1.8	6 ± 1.0	4 ± 1.2
33.0			9 ± 1.5	7 ± 2.9	9 ± 0.9
100.0			8 ± 2.3[s]	6 ± 0.5[s]	4 ± 2.5[s]
220.0			Toxic		2 ± 0.5[s]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					
Positive Control[3]			77 ± 3.0	185 ± 13.6	175 ± 5.2
Positive Control[5]	274 ± 70.3	155 ± 16.0			

Experiment Number: **695748**

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

G06: Ames Summary Data

Test Compound: **1,3-Dichloro-5,5-dimethylhydantoin**

CAS Number: **118-52-5**

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

Time Report Requested: **18:11:32**

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	7 ± 1.7
0.1	
0.3	
1.0	10 ± 2.0
3.3	9 ± 3.2
10.0	9 ± 1.8
33.0	8 ± 1.5
100.0	3 ± 0.0[s]
220.0	
Trial Summary	Negative
Positive Control[2]	278 ± 13.8
Positive Control[3]	
Positive Control[5]	

Experiment Number: **695748**

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

G06: Ames Summary Data

Test Compound: **1,3-Dichloro-5,5-dimethylhydantoin**

CAS Number: **118-52-5**

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

Time Report Requested: **18:11:32**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	16 ± 1.9	21 ± 3.2	27 ± 6.2	26 ± 5.3	33 ± 4.6
0.1	21 ± 2.6	25 ± 1.9			
0.3	17 ± 0.7	22 ± 4.0			
1.0	19 ± 3.2	25 ± 0.9		36 ± 1.9	
3.3	20 ± 4.6	22 ± 2.9	30 ± 2.0	31 ± 1.2	42 ± 1.5
10.0	13 ± 2.9[s]	7 ± 2.4[s]	35 ± 2.6	36 ± 2.7	36 ± 1.2
33.0			26 ± 2.6	34 ± 6.0	30 ± 1.5
100.0			17 ± 6.2[s]	Toxic	23 ± 2.5
220.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					1261 ± 35.8
Positive Control[3]			782 ± 20.1	1638 ± 29.5	
Positive Control[6]	1517 ± 33.4	2325 ± 33.2			

Experiment Number: **695748**

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

G06: Ames Summary Data

Test Compound: **1,3-Dichloro-5,5-dimethylhydantoin**

CAS Number: **118-52-5**

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

Time Report Requested: **18:11:32**

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	34 ± 1.9
0.1	
0.3	
1.0	39 ± 2.3
3.3	38 ± 4.1
10.0	34 ± 1.7
33.0	33 ± 4.3
100.0	Toxic
220.0	
Trial Summary	Negative
Positive Control[2]	2718 ± 132.3
Positive Control[3]	
Positive Control[6]	

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: 95% Ethanol
2: 0.75 ug/Plate 2-Aminoanthracene
3: 1.5 ug/Plate 2-Aminoanthracene
4: 2.5 ug/Plate Sodium Azide
5: 80.0 ug/Plate 9-Aminoacridine
6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine
s: Slight Toxicity

** END OF REPORT **