NTP Study Number: A10742

Study Result: Negative

Experiment Number: **A10742**

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

G06: Ames Summary Data

Test Compound: **2,3-Dichlorobenzoic acid**

CAS Number: **50-45-3**

Date Report Requested: **09/15/2018**

Time Report Requested: **20:31:50**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	113 ± 1.3	120 ± 5.5	117 ± 0.3	151 ± 5.2	116 ± 6.7
100.0	156 ± 12.9	111 ± 3.8	111 ± 1.9	170 ± 3.5	115 ± 7.5
333.0	157 ± 5.4	117 ± 12.3	119 ± 12.5	160 ± 6.6	96 ± 9.6
1000.0	154 ± 0.7	102 ± 7.5	135 ± 3.2	153 ± 2.9	109 ± 3.7
3333.0	168 ± 3.3	108 ± 4.0	118 ± 5.4	149 ± 1.8	110 ± 5.3
10000.0	107 ± 3.8	Toxic	106 ± 7.4	168 ± 11.5	104 ± 4.3
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control[2]	533 ± 15.6	417 ± 19.3			
Positive Control[3]			632 ± 9.5	553 ± 38.0	1682 ± 120.0

Experiment Number: **A10742**

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

G06: Ames Summary Data

Test Compound: **2,3-Dichlorobenzoic acid**

CAS Number: **50-45-3**

Date Report Requested: **09/15/2018**

Time Report Requested: **20:31:50**

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	157 ± 8.1
100.0	125 ± 7.2
333.0	151 ± 6.3
1000.0	140 ± 8.6
3333.0	141 ± 0.9
10000.0	131 ± 9.7
Trial Summary	Negative
Positive Control[2]	
Positive Control[3]	797 ± 8.3

Experiment Number: **A10742**

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

G06: Ames Summary Data

Test Compound: **2,3-Dichlorobenzoic acid**

CAS Number: **50-45-3**

Date Report Requested: **09/15/2018**

Time Report Requested: **20:31:50**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	12 ± 2.6	7 ± 1.2	17 ± 4.0	10 ± 2.4	7 ± 0.6
100.0	9 ± 1.9	6 ± 0.9	10 ± 2.1	16 ± 3.6	13 ± 0.9
333.0	12 ± 1.5	11 ± 1.3	14 ± 1.2	12 ± 2.0	8 ± 0.7
1000.0	13 ± 4.4	11 ± 1.3	11 ± 2.2	11 ± 3.0	8 ± 0.9
3333.0	11 ± 2.2	12 ± 2.6	10 ± 2.7	11 ± 1.5[p]	8 ± 0.3
10000.0	Toxic	14 ± 3.4	7 ± 3.7	10 ± 2.0[p]	8 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]	464 ± 7.1	404 ± 10.7			
Positive Control[3]			79 ± 6.9	57 ± 2.3	214 ± 4.8

Experiment Number: **A10742**

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

G06: Ames Summary Data

Test Compound: **2,3-Dichlorobenzoic acid**

CAS Number: **50-45-3**

Date Report Requested: **09/15/2018**

Time Report Requested: **20:31:50**

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	14 ± 3.0
100.0	10 ± 1.9
333.0	12 ± 2.0
1000.0	14 ± 0.3
3333.0	9 ± 1.0[p]
10000.0	7 ± 1.0[p]
Trial Summary	Negative
Positive Control[2]	
Positive Control[3]	139 ± 5.3

Experiment Number: **A10742**

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

G06: Ames Summary Data

Test Compound: **2,3-Dichlorobenzoic acid**

CAS Number: **50-45-3**

Date Report Requested: **09/15/2018**

Time Report Requested: **20:31:50**

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control[1]	86 ± 3.5	88 ± 4.7	89 ± 4.7	168 ± 5.8	188 ± 7.5
3.0					
10.0			74 ± 7.2		
33.0			66 ± 7.2		
100.0	111 ± 7.1	117 ± 3.7	76 ± 4.1	157 ± 6.2	171 ± 12.9
333.0	117 ± 9.1	122 ± 5.5	61 ± 7.2	173 ± 9.6	157 ± 7.5
1000.0	Toxic	117 ± 16.9	Toxic	173 ± 2.0	94 ± 3.7[s]
3333.0	Toxic	86 ± 6.8		164 ± 4.8	Toxic
10000.0	Toxic	Toxic		100 ± 4.5	Toxic
Trial Summary	Equivocal	Equivocal	Negative	Negative	Negative
Positive Control[3]				512 ± 15.0	528 ± 31.7
Positive Control[4]					
Positive Control[5]	358 ± 20.6	327 ± 18.7	253 ± 11.3		

Experiment Number: **A10742**

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

G06: Ames Summary Data

Test Compound: **2,3-Dichlorobenzoic acid**

CAS Number: **50-45-3**

Date Report Requested: **09/15/2018**

Time Report Requested: **20:31:50**

Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control[1]	240 ± 9.1	223 ± 2.4	160 ± 14.8	168 ± 10.7	171 ± 10.9
3.0			171 ± 4.4		
10.0			166 ± 8.7		
33.0			175 ± 6.1		
100.0	234 ± 2.1	171 ± 16.7	158 ± 5.9	128 ± 3.1	125 ± 5.6
333.0	248 ± 12.5	173 ± 13.4	137 ± 14.3	144 ± 9.5	126 ± 5.7
1000.0	267 ± 6.9	168 ± 10.8		157 ± 8.6	118 ± 1.5
3333.0	Toxic	Toxic		145 ± 3.8	Toxic
10000.0	Toxic	Toxic		Toxic	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[3]	374 ± 17.6			1117 ± 14.7	1371 ± 27.1
Positive Control[4]		485 ± 12.1	458 ± 35.3		
Positive Control[5]					

Experiment Number: **A10742**

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

G06: Ames Summary Data

Test Compound: **2,3-Dichlorobenzoic acid**

CAS Number: **50-45-3**

Date Report Requested: **09/15/2018**

Time Report Requested: **20:31:50**

Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control[1]	209 ± 12.6	222 ± 6.8
3.0		
10.0		
33.0		
100.0	201 ± 8.9	195 ± 13.5
333.0	199 ± 13.1	215 ± 9.0
1000.0	182 ± 10.8	174 ± 15.6
3333.0	Toxic	Toxic
10000.0	Toxic	Toxic
Trial Summary	Negative	Negative
Positive Control[3]	941 ± 15.0	596 ± 27.8
Positive Control[4]		
Positive Control[5]		

Experiment Number: **A10742**

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

G06: Ames Summary Data

Test Compound: **2,3-Dichlorobenzoic acid**

CAS Number: **50-45-3**

Date Report Requested: **09/15/2018**

Time Report Requested: **20:31:50**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	20 ± 1.0	32 ± 3.2	41 ± 4.0	37 ± 3.8	34 ± 8.4
100.0	17 ± 2.0	26 ± 2.4	31 ± 1.2	34 ± 1.5	43 ± 5.1
333.0	19 ± 3.7	31 ± 3.7	26 ± 0.3	33 ± 1.5	33 ± 6.2
1000.0	20 ± 3.1	24 ± 4.4	31 ± 4.4	26 ± 6.2	34 ± 8.0
3333.0	15 ± 0.6	22 ± 3.8	31 ± 1.5	33 ± 4.4	38 ± 5.8
10000.0	20 ± 6.4	16 ± 3.4	28 ± 4.2	28 ± 4.4	26 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[6]	101 ± 8.4	147 ± 1.5			
Positive Control[3]			652 ± 11.8	216 ± 17.4	1883 ± 22.3

Experiment Number: **A10742**

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

G06: Ames Summary Data

Test Compound: **2,3-Dichlorobenzoic acid**

CAS Number: **50-45-3**

Date Report Requested: **09/15/2018**

Time Report Requested: **20:31:50**

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	33 ± 3.5
100.0	33 ± 2.8
333.0	21 ± 2.0
1000.0	33 ± 2.5
3333.0	34 ± 4.3
10000.0	33 ± 2.4
Trial Summary	Negative
Positive Control[6]	
Positive Control[3]	995 ± 22.8

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: 1.0 ug/Plate Sodium Azide
3: 1.0 ug/Plate 2-Aminoanthracene
4: 2.0 ug/Plate 2-Aminoanthracene
5: 50.0 ug/Plate 9-Aminoacridine
6: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine
p: Precipitate
s: Slight Toxicity

** END OF REPORT **