NTP Study Number: 976471

Study Result: Negative

Experiment Number: **976471**

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

G06: Ames Summary Data

Test Compound: **cis & trans 1,2-Dichloroethylene**

CAS Number: **540-59-0**

Date Report Requested: **09/18/2018**

Time Report Requested: **02:50:14**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	85 ± 6.6	107 ± 4.2	96 ± 10.0	94 ± 3.7	84 ± 6.2
33.3	80 ± 4.8	78 ± 1.2	77 ± 5.5	82 ± 3.5	100 ± 7.6
100.0	64 ± 5.2	75 ± 3.8	78 ± 6.9	88 ± 0.9	94 ± 4.4
333.3	83 ± 8.5	85 ± 7.8	78 ± 5.0	82 ± 6.8	85 ± 5.6
1000.0	72 ± 10.0	63 ± 6.3	79 ± 6.4	72 ± 5.5	82 ± 5.8
3333.3	73 ± 7.8[s]	44 ± 2.8[s]	66 ± 2.8[s]	51 ± 1.5[s]	88 ± 7.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			528 ± 9.3	807 ± 30.1	1383 ± 66.9
Positive Control[3]	413 ± 8.8	350 ± 23.3			

Experiment Number: **976471**

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

G06: Ames Summary Data

Test Compound: **cis & trans 1,2-Dichloroethylene**

CAS Number: **540-59-0**

Date Report Requested: **09/18/2018**

Time Report Requested: **02:50:14**

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	78 ± 5.8
33.3	85 ± 4.5
100.0	92 ± 3.5
333.3	83 ± 4.5
1000.0	66 ± 3.8
3333.3	59 ± 4.3[s]
Trial Summary	Negative
Positive Control[2]	1991 ± 73.8
Positive Control[3]	

Experiment Number: **976471**

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

G06: Ames Summary Data

Test Compound: **cis & trans 1,2-Dichloroethylene**

CAS Number: **540-59-0**

Date Report Requested: **09/18/2018**

Time Report Requested: **02:50:14**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	10 ± 1.3	13 ± 3.0	9 ± 1.5	7 ± 1.3	6 ± 2.5
33.3	18 ± 1.2	5 ± 0.0	7 ± 1.2	5 ± 2.0	8 ± 0.6
100.0	6 ± 0.9	7 ± 0.7	10 ± 3.5	6 ± 1.8	9 ± 2.7
333.3	11 ± 3.8	6 ± 0.6	9 ± 1.7	4 ± 1.2	7 ± 1.2
1000.0	9 ± 3.1	7 ± 1.2	6 ± 3.0	4 ± 0.6	5 ± 0.9
3333.3	6 ± 4.2[s]	4 ± 1.8	6 ± 0.3[s]	3 ± 0.3[s]	5 ± 1.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[3]	350 ± 10.4	353 ± 18.9			
Positive Control[4]			313 ± 14.2	288 ± 21.2	470 ± 34.0

Experiment Number: **976471**

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

G06: Ames Summary Data

Test Compound: **cis & trans 1,2-Dichloroethylene**

CAS Number: **540-59-0**

Date Report Requested: **09/18/2018**

Time Report Requested: **02:50:14**

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	7 ± 2.7
33.3	5 ± 0.9
100.0	6 ± 1.3
333.3	4 ± 0.3
1000.0	5 ± 0.3
3333.3	4 ± 1.0
Trial Summary	Negative
Positive Control[3]	
Positive Control[4]	413 ± 24.4

Experiment Number: **976471**

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

G06: Ames Summary Data

Test Compound: **cis & trans 1,2-Dichloroethylene**

CAS Number: **540-59-0**

Date Report Requested: **09/18/2018**

Time Report Requested: **02:50:14**

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	7 ± 1.5	3 ± 0.9	9 ± 2.1	6 ± 1.5	7 ± 3.1
33.3	6 ± 0.9	4 ± 0.9	5 ± 0.3	5 ± 1.2	8 ± 0.9
100.0	7 ± 1.0	3 ± 0.3	6 ± 0.0	3 ± 0.6	9 ± 3.3
333.3	5 ± 0.9	3 ± 1.2	5 ± 0.0	4 ± 0.3	6 ± 0.9
1000.0	4 ± 0.6	2 ± 0.6	7 ± 1.7	4 ± 0.3	5 ± 0.9
3333.3	3 ± 0.9[s]	2 ± 0.9[s]	4 ± 0.9[s]	3 ± 0.3[s]	4 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[4]			235 ± 5.8	189 ± 15.9	445 ± 13.0
Positive Control[5]	124 ± 40.2	164 ± 42.6			

Experiment Number: **976471**

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

G06: Ames Summary Data

Test Compound: **cis & trans 1,2-Dichloroethylene**

CAS Number: **540-59-0**

Date Report Requested: **09/18/2018**

Time Report Requested: **02:50:14**

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	5 ± 1.2
33.3	3 ± 0.0
100.0	6 ± 1.0
333.3	4 ± 1.3
1000.0	4 ± 0.3
3333.3	3 ± 1.7[s]
Trial Summary	Negative
Positive Control[4]	397 ± 37.6
Positive Control[5]	

Experiment Number: **976471**

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

G06: Ames Summary Data

Test Compound: **cis & trans 1,2-Dichloroethylene**

CAS Number: **540-59-0**

Date Report Requested: **09/18/2018**

Time Report Requested: **02:50:14**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	28 ± 1.7	20 ± 2.7	35 ± 5.9	30 ± 1.7	24 ± 1.7
33.3	15 ± 0.9	16 ± 1.7	37 ± 4.1	25 ± 1.9	40 ± 9.7
100.0	24 ± 3.8	20 ± 0.6	48 ± 8.0	23 ± 3.4	30 ± 3.4
333.3	21 ± 3.2	20 ± 0.9	34 ± 2.3	26 ± 1.2	31 ± 4.3
1000.0	16 ± 1.9	11 ± 1.9	23 ± 3.3	13 ± 2.6	26 ± 3.8
3333.3	7 ± 1.5[s]	3 ± 1.2[s]	14 ± 2.6[s]	8 ± 2.2[s]	25 ± 2.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			326 ± 16.1	584 ± 14.2	1177 ± 53.5
Positive Control[6]	797 ± 18.8	784 ± 38.8			

Experiment Number: **976471**

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

G06: Ames Summary Data

Test Compound: **cis & trans 1,2-Dichloroethylene**

CAS Number: **540-59-0**

Date Report Requested: **09/18/2018**

Time Report Requested: **02:50:14**

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	31 ± 0.9
33.3	26 ± 2.4
100.0	34 ± 3.6
333.3	36 ± 1.7
1000.0	30 ± 1.2
3333.3	19 ± 1.9[s]
Trial Summary	Negative
Positive Control[2]	1664 ± 90.1
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: Dimethyl Sulfoxide
2: 1.0 ug/Plate 2-Aminoanthracene
3: 1.0 ug/Plate Sodium Azide
4: 2.5 ug/Plate 2-Aminoanthracene
5: 50.0 ug/Plate 9-Aminoacridine
6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine
s: Slight Toxicity

** END OF REPORT **