

Experiment Number: 566847

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

**G06: Ames Summary Data**

Test Compound: 1,2-Dichloropropane (propylene dichloride)

CAS Number: 78-87-5

Date Report Requested: 09/14/2018

Time Report Requested: 04:21:27

**NTP Study Number:**

566847

**Study Result:**

Weakly Positive

Experiment Number: 566847

## G06: Ames Summary Data

Date Report Requested: 09/14/2018

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

Test Compound: 1,2-Dichloropropane (propylene dichloride)

Time Report Requested: 04:21:27

CAS Number: 78-87-5

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	117 ± 5.0	105 ± 4.6	156 ± 2.8	172 ± 9.7	161 ± 18.3
10.0					
33.0					
100.0	108 ± 3.2	90 ± 7.0			186 ± 5.5
333.0	146 ± 4.4	120 ± 8.5			151 ± 5.0
1000.0	152 ± 3.5	113 ± 6.7		197 ± 3.8	151 ± 3.8
1667.0			145 ± 9.8	219 ± 8.9	
3333.0	167 ± 10.4	223 ± 9.1	152 ± 7.3	247 ± 23.3	8 ± 4.3
6667.0			167 ± 9.7	221 ± 9.0	
10000.0	149 ± 7.0	247 ± 6.5	177 ± 4.0	232 ± 21.1	0 ± 0.0
16667.0			173 ± 7.7		
Trial Summary	Weakly Positive	Positive	Negative	Weakly Positive	Negative
Positive Control <sup>2</sup>					1351 ± 41.7
Positive Control <sup>3</sup>	478 ± 24.4	441 ± 41.9	1032 ± 16.4	1714 ± 34.9	

Experiment Number: 566847

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: 1,2-Dichloropropane (propylene dichloride)  
CAS Number: 78-87-5

Date Report Requested: 09/14/2018

Time Report Requested: 04:21:27

## Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	126 ± 2.0	109 ± 6.8	175 ± 2.3	134 ± 11.5	103 ± 8.4
10.0	129 ± 1.2	98 ± 6.7			
33.0	122 ± 13.8	101 ± 9.4		130 ± 4.7	91 ± 5.3
100.0	121 ± 11.2	112 ± 1.9	163 ± 7.2	140 ± 6.2	83 ± 5.0
333.0	112 ± 16.2	111 ± 8.9	144 ± 8.7	134 ± 2.5	78 ± 4.4
1000.0	103 ± 8.1	76 ± 1.8	150 ± 10.4	124 ± 8.1	93 ± 17.3
1667.0					
3333.0			47 ± 0.5	140 ± 8.4	119 ± 4.3
6667.0					
10000.0			2 ± 0.6		
16667.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	1186 ± 54.6	1621 ± 142.2	1776 ± 53.0	1955 ± 23.9	2049 ± 77.5
Positive Control <sup>3</sup>					

Experiment Number: 566847

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: 1,2-Dichloropropane (propylene dichloride)

CAS Number: 78-87-5

Date Report Requested: 09/14/2018

Time Report Requested: 04:21:27

## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	6 ± 0.9	9 ± 1.8	4 ± 0.3	16 ± 3.8	17 ± 2.4
10.0					
33.0					
100.0	8 ± 1.7	6 ± 1.3			17 ± 1.3
333.0	9 ± 0.7	7 ± 1.0			22 ± 1.0
1000.0	13 ± 2.2	8 ± 2.3		20 ± 2.9	26 ± 2.0
1667.0			4 ± 1.2	26 ± 2.7	
3333.0	17 ± 5.8	21 ± 3.1	7 ± 1.2	28 ± 3.3	Toxic
6667.0			3 ± 0.3	18 ± 2.4	
10000.0	Toxic	18 ± 1.9	3 ± 0.3	10 ± 0.9	0 ± 0.0
16667.0			4 ± 0.7		
Trial Summary	Equivocal	Equivocal	Negative	Negative	Negative
Positive Control <sup>4</sup>					273 ± 16.4
Positive Control <sup>3</sup>	366 ± 5.2	532 ± 19.8	1280 ± 127.7	1519 ± 80.9	

Experiment Number: 566847

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: 1,2-Dichloropropane (propylene dichloride)  
CAS Number: 78-87-5

Date Report Requested: 09/14/2018

Time Report Requested: 04:21:27

## Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	9 ± 0.6	3 ± 0.0	10 ± 1.9	16 ± 0.3	7 ± 1.2
10.0	6 ± 1.5	5 ± 0.7			5 ± 1.0
33.0	7 ± 1.2	5 ± 0.9		13 ± 2.1	3 ± 0.9
100.0	7 ± 1.2	4 ± 0.9	7 ± 0.7	16 ± 0.9	3 ± 0.7
333.0	4 ± 0.9	4 ± 0.9	6 ± 0.3	20 ± 4.7	3 ± 0.9
1000.0	8 ± 0.3	3 ± 0.6	11 ± 0.9	15 ± 0.3	6 ± 1.0
1667.0					
3333.0			Toxic	18 ± 2.4	
6667.0					
10000.0			0 ± 0.0		
16667.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>	344 ± 29.9	94 ± 4.7	316 ± 11.0	359 ± 64.3	93 ± 4.3
Positive Control <sup>3</sup>					

Experiment Number: 566847

**G06: Ames Summary Data**

Date Report Requested: 09/14/2018

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

Test Compound: 1,2-Dichloropropane (propylene dichloride)

Time Report Requested: 04:21:27

CAS Number: 78-87-5

**Strain: TA1537**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>
Vehicle Control <sup>1</sup>	5 ± 1.2	8 ± 1.0	12 ± 6.0	8 ± 0.7	4 ± 0.0
33.0				8 ± 1.3	4 ± 0.9
100.0	6 ± 1.7	7 ± 1.5	17 ± 1.8	8 ± 1.2	7 ± 2.2
333.0	7 ± 1.3	4 ± 2.0	19 ± 1.5	5 ± 1.2	8 ± 1.2
1000.0	5 ± 0.3	6 ± 0.6	13 ± 1.7	7 ± 1.5	5 ± 0.7
3333.0	3 ± 0.3	4 ± 2.2	Toxic	7 ± 0.7	3 ± 0.9
10000.0	Toxic	Toxic	0 ± 0.0		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			127 ± 20.5	268 ± 30.4	262 ± 29.7
Positive Control <sup>5</sup>	169 ± 55.1	264 ± 8.6			

Experiment Number: 566847

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 1,2-Dichloropropane (propylene dichloride)  
CAS Number: 78-87-5

Date Report Requested: 09/14/2018

Time Report Requested: 04:21:27

**Strain: TA1537**

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	7 ± 1.0	15 ± 1.2	13 ± 0.3
33.0		20 ± 2.6	16 ± 0.9
100.0	10 ± 1.2	15 ± 1.7	14 ± 0.7
333.0	15 ± 2.6	21 ± 1.2	17 ± 2.1
1000.0	9 ± 1.0	14 ± 1.3	14 ± 0.7
3333.0	3 ± 1.2	11 ± 0.9	8 ± 0.3
10000.0	0 ± 0.0		
Trial Summary	Negative	Negative	Negative
Positive Control <sup>4</sup>	158 ± 10.0	162 ± 5.2	136 ± 11.7
Positive Control <sup>5</sup>			

Experiment Number: 566847

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: 1,2-Dichloropropane (propylene dichloride)  
CAS Number: 78-87-5

Date Report Requested: 09/14/2018

Time Report Requested: 04:21:27

## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	16 ± 1.2	15 ± 2.6	28 ± 8.2	24 ± 1.2	20 ± 3.5
33.0				23 ± 1.2	14 ± 0.6
100.0	16 ± 0.7	10 ± 0.9	37 ± 2.6	20 ± 4.1	13 ± 1.0
333.0	17 ± 1.5	13 ± 3.5	30 ± 1.9	24 ± 3.2	10 ± 0.7
1000.0	19 ± 0.7	8 ± 0.9	24 ± 4.3	23 ± 3.2	8 ± 1.9
3333.0	18 ± 0.3	14 ± 2.9	Toxic	20 ± 1.2	11 ± 2.7
10000.0	19 ± 0.9	11 ± 0.3	0 ± 0.0		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			1083 ± 15.0	741 ± 125.3	801 ± 143.6
Positive Control <sup>6</sup>	150 ± 22.3	197 ± 9.3			



Experiment Number: 566847

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 1,2-Dichloropropane (propylene dichloride)  
CAS Number: 78-87-5

Date Report Requested: 09/14/2018

Time Report Requested: 04:21:27

**Strain: TA98**

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	18 ± 1.3	29 ± 0.9	9 ± 0.3
33.0		29 ± 2.0	11 ± 2.4
100.0	17 ± 2.0	26 ± 3.6	12 ± 1.5
333.0	20 ± 3.2	24 ± 1.2	12 ± 2.6
1000.0	19 ± 0.3	29 ± 1.2	11 ± 1.2
3333.0	Toxic	25 ± 1.2	10 ± 0.9
10000.0	0 ± 0.0		
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>	1359 ± 33.0	1421 ± 69.0	2021 ± 194.0
Positive Control <sup>6</sup>			

Experiment Number: 566847

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

**G06: Ames Summary Data**

Test Compound: 1,2-Dichloropropane (propylene dichloride)

CAS Number: 78-87-5

Date Report Requested: 09/14/2018

Time Report Requested: 04:21:27

**LEGEND**

---

Values given as Mean or Mean  $\pm$  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: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**\*\* END OF REPORT \*\***