

Experiment Number: 602090

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: cis-1,2-Dichloroethylene

CAS Number: 156-59-2

Date Report Requested: 09/15/2018

Time Report Requested: 00:26:33

**NTP Study Number:**

602090

**Study Result:**

Negative

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Test Compound: cis-1,2-Dichloroethylene  
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Date Report Requested: 09/15/2018

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	127 ± 12.9	95 ± 5.8	101 ± 5.8	142 ± 5.2	85 ± 2.2
33.0	125 ± 4.2	90 ± 7.5	92 ± 1.5	132 ± 2.3	80 ± 3.2
100.0	115 ± 6.8	101 ± 4.7	89 ± 1.5	138 ± 3.4	76 ± 2.8
333.0	132 ± 8.1	91 ± 3.5	98 ± 7.0	134 ± 7.0	82 ± 2.6
1000.0	120 ± 4.3	89 ± 6.3	88 ± 4.5	130 ± 0.9	78 ± 3.8
2000.0	80 ± 3.8			100 ± 3.2	
3333.0		80 ± 12.3 <sup>s</sup>	74 ± 4.1 <sup>s</sup>		63 ± 2.9 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					567 ± 24.8
Positive Control <sup>3</sup>	336 ± 15.1	416 ± 14.8			
Positive Control <sup>4</sup>			624 ± 2.7		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>				686 ± 22.0	

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	117 ± 5.3
33.0	117 ± 8.8
100.0	118 ± 3.9
333.0	108 ± 7.1
1000.0	108 ± 5.3
2000.0	101 ± 1.2
3333.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	457 ± 18.6
Positive Control <sup>6</sup>	

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**Strain: TA1535**

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	19 ± 4.0	19 ± 1.7	8 ± 1.7	11 ± 1.8	8 ± 1.7
33.0	18 ± 3.8	23 ± 1.5	9 ± 3.3	12 ± 1.0	9 ± 1.5
100.0	17 ± 3.4	25 ± 4.5	12 ± 3.1	9 ± 0.9	9 ± 0.7
333.0	19 ± 2.3	22 ± 3.4	11 ± 1.0	9 ± 1.2	7 ± 1.3
1000.0	15 ± 0.9	20 ± 0.7	12 ± 1.5	12 ± 2.2	8 ± 2.2
2500.0	14 ± 1.2			11 ± 1.9	
3333.0		14 ± 1.0 <sup>s</sup>	7 ± 0.9 <sup>s</sup>		5 ± 2.3 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					57 ± 3.2
Positive Control <sup>3</sup>	210 ± 15.3	272 ± 3.0			
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>			127 ± 7.0	135 ± 17.4	

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G06: Ames Summary Data  
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Date Report Requested: 09/15/2018  
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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	10 ± 1.7
33.0	10 ± 0.7
100.0	10 ± 1.7
333.0	9 ± 1.7
1000.0	13 ± 0.6
2500.0	7 ± 0.3
3333.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	92 ± 2.0
Positive Control <sup>6</sup>	

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Date Report Requested: 09/15/2018  
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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	6 ± 0.7	4 ± 0.3	6 ± 0.0
33.0	6 ± 0.6	7 ± 0.6	7 ± 1.0
100.0	3 ± 1.2	8 ± 1.2	7 ± 0.6
333.0	4 ± 1.5	6 ± 1.7	3 ± 0.7
1000.0	5 ± 2.0	6 ± 2.7	4 ± 1.2
2500.0	6 ± 1.2 <sup>s</sup>	6 ± 3.6	6 ± 1.5
Trial Summary	Negative	Negative	Negative
Positive Control <sup>7</sup>		78 ± 5.5	217 ± 3.4
Positive Control <sup>8</sup>	36 ± 1.5		

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**Strain: TA97**

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	70 ± 8.4	93 ± 5.6	119 ± 10.8	137 ± 3.0	98 ± 17.0
33.0	65 ± 10.2	89 ± 5.5	115 ± 12.4	149 ± 8.4	100 ± 4.0
100.0	74 ± 7.7	79 ± 10.0	117 ± 2.6	152 ± 6.9	105 ± 9.0
333.0	79 ± 1.2	87 ± 5.0	118 ± 14.9	133 ± 10.2	112 ± 1.7
1000.0	81 ± 6.4	81 ± 1.5	117 ± 6.7	129 ± 8.1	111 ± 4.3
2500.0	56 ± 2.6 <sup>s</sup>			97 ± 4.5 <sup>s</sup>	
3333.0		74 ± 7.6 <sup>s</sup>	80 ± 7.4 <sup>s</sup>		78 ± 4.9 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>					783 ± 36.5
Positive Control <sup>6</sup>			1409 ± 47.4		
Positive Control <sup>7</sup>				577 ± 6.7	
Positive Control <sup>9</sup>	208 ± 26.6	187 ± 9.5			

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	114 ± 5.2
33.0	117 ± 3.7
100.0	124 ± 6.9
333.0	120 ± 4.7
1000.0	125 ± 7.5
2500.0	98 ± 4.0 <sup>s</sup>
3333.0	
Trial Summary	Negative
Positive Control <sup>4</sup>	
Positive Control <sup>6</sup>	
Positive Control <sup>7</sup>	988 ± 40.3
Positive Control <sup>9</sup>	

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**Strain: TA98**

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	15 ± 1.5	15 ± 3.1	26 ± 0.9	21 ± 3.0	33 ± 2.2
33.0	11 ± 2.3	15 ± 1.5	19 ± 1.7	26 ± 1.0	27 ± 3.1
100.0	17 ± 4.4	11 ± 3.2	21 ± 4.4	21 ± 1.7	28 ± 2.5
333.0	14 ± 3.5	14 ± 1.7	22 ± 2.4	23 ± 2.6	26 ± 1.5
1000.0	9 ± 1.0	11 ± 1.0	19 ± 4.4	17 ± 2.2	27 ± 2.9
2000.0	11 ± 0.3			17 ± 0.6	
3333.0		13 ± 2.3 <sup>s</sup>	18 ± 4.2 <sup>s</sup>		19 ± 0.9 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>10</sup>					233 ± 7.1
Positive Control <sup>2</sup>			259 ± 26.9		
Positive Control <sup>11</sup>	116 ± 0.6	209 ± 5.0			
Positive Control <sup>5</sup>				151 ± 4.2	

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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	21 ± 1.5
33.0	23 ± 5.8
100.0	21 ± 2.6
333.0	24 ± 0.6
1000.0	27 ± 1.7
2000.0	23 ± 2.7
3333.0	
Trial Summary	Negative
Positive Control <sup>10</sup>	
Positive Control <sup>2</sup>	78 ± 11.6
Positive Control <sup>11</sup>	
Positive Control <sup>5</sup>	

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**LEGEND**

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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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 2-Aminoanthracene

8: 4.0 ug/Plate 9-Aminoacridine

9: 8.0 ug/Plate 9-Aminoacridine

10: 0.2 ug/Plate 2-Aminoanthracene

11: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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