

Experiment Number: 411489

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 2,4-Dichloroaniline

CAS Number: 554-00-7

Date Report Requested: 09/14/2018

Time Report Requested: 22:59:11

**NTP Study Number:**

411489

**Study Result:**

Weakly Positive

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	84 ± 3.8	101 ± 8.4	89 ± 7.4	107 ± 6.4	177 ± 4.4
3.3	88 ± 5.8	94 ± 6.0	104 ± 6.1		
10.0	84 ± 3.2	85 ± 5.3	103 ± 5.4	106 ± 4.2	161 ± 6.4
33.0	86 ± 1.2	99 ± 5.4	100 ± 7.6	117 ± 2.0	167 ± 3.2
100.0	83 ± 3.0	94 ± 0.9	116 ± 2.6	121 ± 9.8	185 ± 2.6
200.0	81 ± 2.3 <sup>s</sup>				177 ± 5.5
333.0		Toxic	56 ± 13.2 <sup>s</sup>	152 ± 13.5 <sup>s</sup>	129 ± 5.5 <sup>s</sup>
500.0					0 ± 0.0 <sup>s</sup>
666.0				114 ± 16.5 <sup>s</sup>	0 ± 0.3 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>	359 ± 10.8	413 ± 28.7			
Positive Control <sup>4</sup>			404 ± 9.7		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>				850 ± 63.5	648 ± 39.9

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## Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	155 ± 12.5	89 ± 3.0	90 ± 3.5	97 ± 8.0	106 ± 2.1
3.3				100 ± 12.4	
10.0	143 ± 10.5	80 ± 3.2	99 ± 2.1	93 ± 9.4	118 ± 7.2
33.0	166 ± 7.0	85 ± 6.2	91 ± 6.7	97 ± 7.5	123 ± 4.3
100.0	176 ± 1.7	84 ± 7.4	96 ± 3.8	96 ± 1.9	166 ± 5.2
200.0	161 ± 7.5				
333.0	154 ± 5.9	76 ± 8.6 <sup>s</sup>	92 ± 12.9 <sup>s</sup>	93 ± 3.0 <sup>s</sup>	173 ± 5.8
500.0	128 ± 14.6 <sup>s</sup>	71 ± 3.5 <sup>s</sup>	74 ± 4.0 <sup>s</sup>		
666.0	64 ± 32.3 <sup>s</sup>				190 ± 7.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Weakly Positive
Positive Control <sup>2</sup>		688 ± 20.2	463 ± 16.5	780 ± 19.6	
Positive Control <sup>3</sup>					
Positive Control <sup>4</sup>					
Positive Control <sup>5</sup>					551 ± 24.6
Positive Control <sup>6</sup>	636 ± 40.3				

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**Strain: TA100**

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	108 ± 2.6	160 ± 8.8	139 ± 12.7
3.3			
10.0	103 ± 7.0	185 ± 10.2	168 ± 6.2
33.0	124 ± 3.8	178 ± 9.3	159 ± 9.0
100.0	118 ± 5.0	203 ± 8.0	197 ± 8.4
200.0			
333.0	130 ± 4.7 <sup>s</sup>	194 ± 3.5	213 ± 5.2
500.0	147 ± 3.2 <sup>s</sup>		
666.0		0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>
Trial Summary	Equivocal	Equivocal	Weakly Positive
Positive Control <sup>2</sup>			
Positive Control <sup>3</sup>			
Positive Control <sup>4</sup>			
Positive Control <sup>5</sup>	566 ± 24.9	494 ± 30.8	629 ± 32.3
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>	18 ± 3.6	19 ± 3.1	7 ± 0.9	11 ± 1.7	12 ± 1.2
3.3	27 ± 2.3	14 ± 1.0	9 ± 1.2	9 ± 2.0	6 ± 0.9
10.0	21 ± 1.5	20 ± 1.2	10 ± 2.3	11 ± 1.2	8 ± 1.7
33.0	15 ± 3.5	18 ± 3.0	7 ± 1.0	11 ± 1.8	13 ± 2.3
100.0	21 ± 2.9	19 ± 1.7	12 ± 0.9	7 ± 1.7	10 ± 0.9
200.0	20 ± 2.4				
333.0		17 ± 1.0 <sup>s</sup>	6 ± 0.7 <sup>s</sup>	9 ± 1.3	8 ± 0.7 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					58 ± 9.6
Positive Control <sup>3</sup>	301 ± 18.6	220 ± 2.3			
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>			52 ± 4.5	71 ± 4.8	

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	10 ± 1.5
3.3	13 ± 3.2
10.0	8 ± 1.0
33.0	9 ± 2.1
100.0	7 ± 0.7
200.0	
333.0	11 ± 2.5
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	98 ± 6.5
Positive Control <sup>6</sup>	

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	5 ± 1.5	14 ± 2.0	7 ± 1.2
3.3	4 ± 0.7	9 ± 1.7	8 ± 1.0
10.0	5 ± 1.5	11 ± 0.3	10 ± 0.9
33.0	4 ± 1.7	11 ± 1.5	13 ± 2.6
100.0	6 ± 1.0	7 ± 1.2	11 ± 1.0
200.0	6 ± 1.7 <sup>s</sup>		
333.0		11 ± 0.9 <sup>s</sup>	12 ± 1.3 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>7</sup>		36 ± 2.3	114 ± 2.9
Positive Control <sup>8</sup>	30 ± 2.2		

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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>	69 ± 3.4	94 ± 3.2	112 ± 7.0	163 ± 4.7	106 ± 3.4
3.3	66 ± 0.9	101 ± 5.8	101 ± 4.6	132 ± 4.7	103 ± 5.9
10.0	70 ± 3.5	98 ± 3.3	112 ± 5.5	118 ± 9.0	98 ± 2.3
33.0	73 ± 4.4	96 ± 2.6	112 ± 6.7	153 ± 11.6	105 ± 3.2
100.0	69 ± 1.5	92 ± 3.8	114 ± 9.4	156 ± 3.2	101 ± 6.2
200.0	48 ± 7.2 <sup>s</sup>				
333.0		2 ± 2.3 <sup>s</sup>	61 ± 2.3 <sup>s</sup>	113 ± 1.2 <sup>s</sup>	89 ± 3.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>					972 ± 32.0
Positive Control <sup>6</sup>			962 ± 15.0		
Positive Control <sup>7</sup>				549 ± 17.7	
Positive Control <sup>9</sup>	232 ± 19.6	304 ± 25.1			



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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	131 ± 4.5
3.3	125 ± 2.6
10.0	141 ± 8.1
33.0	129 ± 4.7
100.0	134 ± 5.9
200.0	
333.0	119 ± 6.1 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	
Positive Control <sup>6</sup>	
Positive Control <sup>7</sup>	854 ± 37.1
Positive Control <sup>9</sup>	

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	19 ± 2.3	19 ± 0.9	24 ± 1.5	29 ± 2.1	24 ± 1.7
3.3	20 ± 2.3	19 ± 6.6			27 ± 4.2
10.0	13 ± 1.5	16 ± 2.3	27 ± 1.7	27 ± 4.7	25 ± 2.9
33.0	19 ± 0.3	15 ± 2.0	34 ± 3.5	38 ± 5.2	25 ± 2.5
100.0	18 ± 2.0	22 ± 3.6	23 ± 2.2	29 ± 1.2	31 ± 2.4
200.0	14 ± 3.2				
333.0		Toxic	14 ± 1.9 <sup>s</sup>	28 ± 2.1 <sup>s</sup>	19 ± 4.4 <sup>s</sup>
500.0			Toxic	Toxic	
666.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>10</sup>					
Positive Control <sup>2</sup>			334 ± 12.2	145 ± 9.5	126 ± 7.8
Positive Control <sup>5</sup>					
Positive Control <sup>11</sup>	252 ± 11.5	180 ± 8.0			

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## Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	27 ± 4.3	25 ± 1.5	24 ± 1.5	27 ± 2.9
3.3			28 ± 6.0	
10.0	29 ± 4.7	30 ± 1.2	27 ± 2.7	28 ± 2.7
33.0	34 ± 1.5	33 ± 2.7	29 ± 2.7	31 ± 3.0
100.0	35 ± 1.2	34 ± 3.2	33 ± 1.3	31 ± 3.2
200.0				
333.0	45 ± 2.2	34 ± 2.7	30 ± 1.5 <sup>s</sup>	29 ± 1.8
500.0		27 ± 2.6 <sup>s</sup>		
666.0	34 ± 3.5 <sup>s</sup>			25 ± 7.8 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>10</sup>			248 ± 26.3	
Positive Control <sup>2</sup>				94 ± 2.3
Positive Control <sup>5</sup>	289 ± 3.1	155 ± 7.3		
Positive Control <sup>11</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 \*\***