

Experiment Number: 263579

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

**G06: Ames Summary Data**

Test Compound: **Octachlorodibenzodioxin (OCDD)**

CAS Number: **3268-87-9**

Date Report Requested: **09/11/2018**

Time Report Requested: **08:10:05**

**NTP Study Number:**

263579

**Study Result:**

Negative

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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>	96 ± 1.8	92 ± 2.3	126 ± 15.7	127 ± 10.9	133 ± 12.7
100.0	64 ± 33.4	110 ± 4.3	113 ± 11.0	119 ± 6.6	102 ± 4.1
333.0	95 ± 5.8	106 ± 9.8	118 ± 13.9	115 ± 0.7	108 ± 3.7
1000.0	84 ± 8.9	96 ± 4.1	130 ± 9.1	109 ± 0.6	95 ± 9.0
3333.0	84 ± 6.2 <sup>p</sup>	89 ± 5.2 <sup>p</sup>	103 ± 3.5 <sup>p</sup>	112 ± 5.3 <sup>p</sup>	114 ± 1.3 <sup>p</sup>
10000.0	85 ± 7.1 <sup>p</sup>	98 ± 6.8 <sup>p</sup>	103 ± 7.0 <sup>p</sup>	122 ± 6.8 <sup>p</sup>	111 ± 13.8 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	272 ± 10.0	334 ± 19.3			
Positive Control <sup>3</sup>			637 ± 18.0	364 ± 23.5	1178 ± 3.5

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	147 ± 7.2
100.0	130 ± 7.0
333.0	131 ± 9.9
1000.0	122 ± 12.0
3333.0	123 ± 3.2 <sup>p</sup>
10000.0	126 ± 5.8 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	366 ± 33.8

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	29 ± 3.2	23 ± 2.8	10 ± 1.5	17 ± 0.9	12 ± 1.2
100.0	19 ± 3.2	23 ± 3.4	10 ± 0.7	14 ± 1.7	12 ± 2.5
333.0	19 ± 0.6	25 ± 5.2	8 ± 0.7	14 ± 3.1	10 ± 0.3
1000.0	15 ± 2.4	25 ± 2.5	11 ± 2.3	13 ± 0.9	9 ± 1.5
3333.0	21 ± 5.5 <sup>p</sup>	28 ± 4.1 <sup>p</sup>	10 ± 2.6 <sup>p</sup>	17 ± 0.9 <sup>p</sup>	11 ± 1.0 <sup>p</sup>
10000.0	17 ± 3.5 <sup>p</sup>	26 ± 4.6 <sup>p</sup>	6 ± 1.8 <sup>p</sup>	14 ± 2.3 <sup>p</sup>	9 ± 1.0 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	239 ± 19.8	336 ± 20.0			
Positive Control <sup>4</sup>			259 ± 10.7	88 ± 5.8	206 ± 19.1

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	8 ± 0.7	11 ± 2.2
100.0	6 ± 0.9	9 ± 2.0
333.0	10 ± 3.8	9 ± 0.3
1000.0	7 ± 0.6	8 ± 0.6
3333.0	9 ± 2.9 <sup>P</sup>	10 ± 1.9 <sup>P</sup>
10000.0	7 ± 0.6 <sup>P</sup>	10 ± 2.7 <sup>P</sup>
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>		
Positive Control <sup>4</sup>	513 ± 50.6	427 ± 63.5

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	156 ± 7.2	142 ± 4.4	198 ± 6.0	171 ± 4.9	191 ± 9.1
100.0	149 ± 17.2	135 ± 3.2	186 ± 10.8	176 ± 7.7	178 ± 7.4
333.0	150 ± 16.5	130 ± 17.2	182 ± 8.4	169 ± 3.8	170 ± 14.3
1000.0	146 ± 15.1	134 ± 5.6	192 ± 16.3	149 ± 9.8	160 ± 21.2
3333.0	166 ± 7.5 <sup>P</sup>	135 ± 10.0 <sup>P</sup>	202 ± 15.6 <sup>P</sup>	167 ± 3.7 <sup>P</sup>	180 ± 12.3 <sup>P</sup>
10000.0	170 ± 10.9 <sup>P</sup>	129 ± 5.5 <sup>P</sup>	185 ± 6.5 <sup>P</sup>	162 ± 5.9 <sup>P</sup>	165 ± 2.2 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					
Positive Control <sup>4</sup>			1017 ± 18.3	409 ± 11.4	470 ± 29.6
Positive Control <sup>5</sup>	927 ± 39.1	580 ± 82.8			

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 10% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	174 ± 17.0	165 ± 2.1	161 ± 14.8
100.0	218 ± 11.8	176 ± 15.7	187 ± 1.2
333.0	208 ± 6.1	167 ± 2.9	172 ± 11.5
1000.0	254 ± 10.5	180 ± 2.0	183 ± 11.2
3333.0	240 ± 9.9 <sup>P</sup>	177 ± 9.4 <sup>P</sup>	176 ± 4.9 <sup>P</sup>
10000.0	210 ± 5.4 <sup>P</sup>	175 ± 5.9 <sup>P</sup>	183 ± 14.5 <sup>P</sup>
Trial Summary	Equivocal	Negative	Negative
Positive Control <sup>3</sup>			613 ± 37.4
Positive Control <sup>4</sup>	1254 ± 99.7	1345 ± 64.0	
Positive Control <sup>5</sup>			

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	12 ± 0.9	15 ± 0.9	37 ± 2.6	24 ± 2.2	22 ± 1.5
100.0	12 ± 0.3	14 ± 0.6	22 ± 11.5	27 ± 5.7	21 ± 2.4
333.0	12 ± 1.2	13 ± 1.5	17 ± 9.3	31 ± 2.6	24 ± 1.2
1000.0	16 ± 1.0	13 ± 0.9	29 ± 1.5	27 ± 2.8	26 ± 0.9
3333.0	13 ± 0.7 <sup>P</sup>	17 ± 1.9 <sup>P</sup>	34 ± 3.1 <sup>P</sup>	29 ± 2.5 <sup>P</sup>	24 ± 0.9 <sup>P</sup>
10000.0	10 ± 0.6 <sup>P</sup>	16 ± 0.7 <sup>P</sup>	26 ± 1.9 <sup>P</sup>	25 ± 3.7 <sup>P</sup>	25 ± 2.1 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			348 ± 17.4	97 ± 8.1	168 ± 16.7
Positive Control <sup>6</sup>	814 ± 35.0	559 ± 40.3			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	30 ± 0.9	29 ± 3.3
100.0	21 ± 4.3	30 ± 3.2
333.0	23 ± 1.0	33 ± 2.9
1000.0	23 ± 4.4	24 ± 2.7
3333.0	20 ± 3.6 <sup>p</sup>	28 ± 3.2 <sup>p</sup>
10000.0	25 ± 3.0 <sup>p</sup>	22 ± 3.5 <sup>p</sup>
Trial Summary	Negative	Negative
Positive Control <sup>3</sup>	945 ± 52.1	130 ± 15.8
Positive Control <sup>6</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: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

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