

Experiment Number: 358791

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

**G06: Ames Summary Data**

Test Compound: **Hexachloro-1,3-butadiene**

CAS Number: **87-68-3**

Date Report Requested: **09/13/2018**

Time Report Requested: **20:14:46**

**NTP Study Number:**

358791

**Study Result:**

Negative

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**Strain: TA100**

<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% Hamster S9</b>
Vehicle Control <sup>1</sup>	90 ± 0.0	114 ± 11.9	136 ± 2.0	146 ± 6.7	160 ± 11.7
0.33	113 ± 5.7	121 ± 12.7	137 ± 3.6	179 ± 15.9	148 ± 2.6
1.0	105 ± 2.9	126 ± 4.0	125 ± 6.4	150 ± 7.9	148 ± 7.8
3.3	103 ± 5.6	122 ± 4.2	123 ± 11.3	149 ± 11.2	141 ± 5.1
10.0	98 ± 3.2	124 ± 4.6	137 ± 2.5	126 ± 19.2	150 ± 14.1
33.0	90 ± 6.7	105 ± 4.9	140 ± 4.7	163 ± 14.0	118 ± 13.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			412 ± 28.0	420 ± 34.3	587 ± 34.7
Positive Control <sup>3</sup>	389 ± 47.1	450 ± 4.9			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	157 ± 3.5
0.33	170 ± 14.7
1.0	182 ± 20.3
3.3	182 ± 26.3
10.0	171 ± 12.3
33.0	140 ± 16.8
Trial Summary	Negative
Positive Control <sup>2</sup>	978 ± 82.3
Positive Control <sup>3</sup>	

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**Strain: TA1535**

<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% Hamster S9</b>
Vehicle Control <sup>1</sup>	9 ± 0.6	5 ± 1.9	10 ± 0.7	8 ± 1.5	8 ± 0.7
0.33	10 ± 4.0	7 ± 1.5	13 ± 1.9	8 ± 1.0	11 ± 1.5
1.0	7 ± 1.5	5 ± 1.2	11 ± 1.5	11 ± 1.2	9 ± 2.8
3.3	10 ± 1.0	6 ± 0.3	12 ± 1.2	9 ± 0.6	10 ± 1.9
10.0	6 ± 0.3	3 ± 1.0	12 ± 1.5	8 ± 1.9	8 ± 0.3
33.0	6 ± 2.9	4 ± 0.3	13 ± 2.8	8 ± 1.2	12 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			31 ± 6.5	30 ± 1.9	81 ± 6.4
Positive Control <sup>3</sup>	471 ± 55.1	301 ± 48.3			

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	5 ± 1.5
0.33	8 ± 1.8
1.0	8 ± 2.0
3.3	8 ± 1.5
10.0	5 ± 0.3
33.0	7 ± 1.0
Trial Summary	Negative
Positive Control <sup>2</sup>	54 ± 6.4
Positive Control <sup>3</sup>	

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**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% Hamster S9</b>
Vehicle Control <sup>1</sup>	7 ± 2.5	6 ± 0.7	10 ± 1.5	8 ± 1.5	9 ± 0.9
0.33	6 ± 2.0	6 ± 0.9	8 ± 1.2	7 ± 0.6	10 ± 0.3
1.0	6 ± 1.2	7 ± 1.2	9 ± 1.2	6 ± 2.1	15 ± 1.5
3.3	8 ± 1.5	7 ± 0.3	12 ± 1.2	7 ± 1.7	9 ± 1.9
10.0	6 ± 0.3	7 ± 2.2	12 ± 4.4	8 ± 0.7	12 ± 0.5
33.0	3 ± 1.2	5 ± 0.9	9 ± 0.6	10 ± 2.1	13 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			28 ± 4.1	25 ± 2.6	51 ± 7.5
Positive Control <sup>4</sup>	158 ± 27.6	131 ± 9.8			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	7 ± 0.9
0.33	7 ± 0.7
1.0	8 ± 2.0
3.3	8 ± 0.3
10.0	8 ± 1.2
33.0	11 ± 0.9
Trial Summary	Negative
Positive Control <sup>2</sup>	50 ± 11.7
Positive Control <sup>4</sup>	

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	13 ± 0.6	15 ± 1.7	32 ± 4.0	27 ± 0.6	26 ± 0.6
0.33	21 ± 3.0	21 ± 2.0	29 ± 2.5	29 ± 3.8	26 ± 3.0
1.0	15 ± 2.2	15 ± 2.2	24 ± 3.8	23 ± 0.9	24 ± 1.2
3.3	16 ± 1.5	12 ± 2.8	23 ± 3.8	24 ± 1.7	31 ± 8.4
10.0	15 ± 2.2	17 ± 0.5	22 ± 2.7	24 ± 1.5	28 ± 3.2
33.0	12 ± 1.3	13 ± 1.0	20 ± 1.5	19 ± 2.6	33 ± 2.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			167 ± 20.3	655 ± 19.7	354 ± 62.6
Positive Control <sup>5</sup>	257 ± 16.5	207 ± 9.2			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	26 ± 2.0
0.33	28 ± 1.5
1.0	26 ± 3.4
3.3	29 ± 1.2
10.0	26 ± 2.7
33.0	26 ± 3.8
Trial Summary	Negative
Positive Control <sup>2</sup>	1186 ± 143.2
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: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

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