

Experiment Number: 225422

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

**G06: Ames Summary Data**

Test Compound: **Isophorone diisocyanate**

CAS Number: **4098-71-9**

Date Report Requested: **09/14/2018**

Time Report Requested: **21:58:10**

**NTP Study Number:**

225422

**Study Result:**

Negative

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Test Type: Genetic Toxicology - Bacterial  
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## G06: Ames Summary Data

Test Compound: Isophorone diisocyanate

CAS Number: 4098-71-9

Date Report Requested: 09/14/2018

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	113 ± 7.7	93 ± 3.3	147 ± 5.4	130 ± 8.7	122 ± 6.4
0.3	121 ± 10.2	81 ± 6.0	136 ± 8.0	114 ± 8.0	109 ± 3.5
1.0	124 ± 5.8	79 ± 4.4	153 ± 6.7	117 ± 3.7	136 ± 13.6
3.3	108 ± 5.9	86 ± 6.1	164 ± 12.2	129 ± 13.8	167 ± 12.3
10.0	119 ± 9.5	84 ± 4.1	151 ± 7.0	115 ± 1.9	121 ± 7.5
33.0	118 ± 3.2	70 ± 2.5	152 ± 4.3	104 ± 3.2	134 ± 4.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			2501 ± 325.6	2344 ± 86.6	2564 ± 209.5
Positive Control <sup>3</sup>	1199 ± 148.3	1464 ± 57.0			

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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>	120 ± 6.0
0.3	92 ± 9.6
1.0	106 ± 7.3
3.3	119 ± 5.9
10.0	112 ± 3.6
33.0	99 ± 6.1
Trial Summary	Negative
Positive Control <sup>2</sup>	1963 ± 321.6
Positive Control <sup>3</sup>	

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**Strain: TA1535**

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	14 ± 0.9	6 ± 0.9	16 ± 1.7	4 ± 0.6	13 ± 2.2
0.3	14 ± 2.1	5 ± 0.6	14 ± 2.3	2 ± 0.7	12 ± 2.2
1.0	12 ± 2.6	5 ± 0.7	13 ± 1.3	5 ± 1.7	12 ± 2.9
3.3	14 ± 2.3	5 ± 1.9	18 ± 0.9	7 ± 1.8	12 ± 3.5
10.0	13 ± 0.6	6 ± 1.0	13 ± 1.2	8 ± 0.9	11 ± 2.3
33.0	6 ± 1.2	Toxic	14 ± 0.9	6 ± 1.0	9 ± 2.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			281 ± 31.3	117 ± 11.6	214 ± 41.5
Positive Control <sup>3</sup>	1009 ± 110.0	281 ± 27.9			

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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>	3 ± 0.3
0.3	5 ± 0.6
1.0	4 ± 0.9
3.3	5 ± 1.2
10.0	6 ± 1.5
33.0	6 ± 1.2
Trial Summary	Negative
Positive Control <sup>4</sup>	184 ± 8.1
Positive Control <sup>3</sup>	

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**Strain: TA1537**

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	12 ± 0.6	4 ± 1.3	12 ± 2.5	5 ± 1.2	15 ± 2.3
0.3	8 ± 0.9	6 ± 0.3	16 ± 1.8	5 ± 1.0	16 ± 0.3
1.0	9 ± 0.6	6 ± 0.6	18 ± 1.2	7 ± 1.5	16 ± 1.7
3.3	11 ± 1.9	4 ± 0.9	15 ± 1.5	6 ± 0.9	15 ± 0.6
10.0	6 ± 1.7	3 ± 1.3	18 ± 1.2	8 ± 1.5	15 ± 2.2
33.0	8 ± 1.5	Toxic	15 ± 2.0	5 ± 0.3	10 ± 3.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			48 ± 7.1	241 ± 27.5	123 ± 5.0
Positive Control <sup>5</sup>	1017 ± 184.1	291 ± 11.5			

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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>	8 ± 2.2
0.3	5 ± 0.7
1.0	7 ± 0.7
3.3	5 ± 2.3
10.0	7 ± 2.0
33.0	7 ± 0.9
Trial Summary	Negative
Positive Control <sup>4</sup>	195 ± 38.7
Positive Control <sup>5</sup>	

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## G06: Ames Summary Data

Test Compound: Isophorone diisocyanate

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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>	24 ± 3.8	12 ± 3.3	38 ± 5.0	19 ± 3.0	38 ± 2.0
0.3	23 ± 4.2	9 ± 2.0	23 ± 0.6	9 ± 2.4	32 ± 3.8
1.0	24 ± 0.3	7 ± 0.7	31 ± 1.2	14 ± 1.7	30 ± 2.0
3.3	24 ± 4.1	11 ± 1.3	35 ± 1.0	12 ± 2.0	31 ± 2.7
10.0	27 ± 2.4	6 ± 0.6	30 ± 2.2	11 ± 1.5	30 ± 1.9
33.0	26 ± 2.7	9 ± 1.5	24 ± 6.3	11 ± 2.6	28 ± 3.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			1439 ± 93.5	613 ± 187.6	998 ± 146.5
Positive Control <sup>6</sup>	309 ± 5.5	187 ± 33.6			



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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>	16 ± 1.8
0.3	24 ± 2.7
1.0	14 ± 2.6
3.3	19 ± 2.2
10.0	19 ± 2.9
33.0	15 ± 2.1
Trial Summary	Negative
Positive Control <sup>2</sup>	1113 ± 43.6
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 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 \*\***