

Experiment Number: 544172

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

**G06: Ames Summary Data**

Test Compound: **D-Carvone**

CAS Number: **2244-16-8**

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

Time Report Requested: **17:08:04**

**NTP Study Number:**

544172

**Study Result:**

Negative

Experiment Number: 544172

Test Type: Genetic Toxicology - Bacterial  
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Test Compound: D-Carvone

CAS Number: 2244-16-8

Date Report Requested: 09/13/2018

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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>	97 ± 2.1	89 ± 4.6	156 ± 12.5	133 ± 11.7	145 ± 13.1
3.3	108 ± 13.3	84 ± 7.6	121 ± 3.8	94 ± 14.1	144 ± 6.1
10.0	91 ± 1.5	75 ± 4.0	137 ± 6.5	105 ± 6.7	131 ± 9.4
33.0	105 ± 3.2	89 ± 4.1	123 ± 3.8	108 ± 2.2	143 ± 3.8
100.0	95 ± 4.5	73 ± 7.4	115 ± 6.5	100 ± 5.0	121 ± 5.7
333.0	71 ± 4.4	48 ± 9.0	94 ± 6.0	65 ± 11.3	104 ± 9.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			1631 ± 121.6	3091 ± 157.4	2162 ± 99.9
Positive Control <sup>3</sup>	492 ± 75.2	224 ± 7.0			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	121 ± 12.1
3.3	119 ± 9.9
10.0	113 ± 9.6
33.0	107 ± 6.7
100.0	104 ± 3.0
333.0	78 ± 8.4
Trial Summary	Negative
Positive Control <sup>2</sup>	3096 ± 178.2
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>	5 ± 1.5	4 ± 1.5	11 ± 1.9	8 ± 3.0	8 ± 1.2
3.3	6 ± 1.3	3 ± 0.9	7 ± 2.1	5 ± 0.3	5 ± 0.3
10.0	5 ± 1.0	3 ± 0.7	10 ± 1.5	5 ± 1.2	3 ± 0.3
33.0	5 ± 1.0	3 ± 0.3	6 ± 0.7	4 ± 1.5	3 ± 0.7
100.0	1 ± 0.6	2 ± 1.0	4 ± 0.3	3 ± 0.6	7 ± 0.3
333.0	2 ± 0.6	1 ± 0.6	10 ± 0.9	3 ± 2.2	7 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			109 ± 8.1	76 ± 13.4	192 ± 13.3
Positive Control <sup>3</sup>	260 ± 13.0	122 ± 11.1			

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	6 ± 1.5
3.3	5 ± 1.3
10.0	4 ± 0.9
33.0	3 ± 0.7
100.0	5 ± 0.6
333.0	4 ± 0.6
Trial Summary	Negative
Positive Control <sup>2</sup>	41 ± 5.8
Positive Control <sup>3</sup>	

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## G06: Ames Summary Data

Test Compound: D-Carvone

CAS Number: 2244-16-8

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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>	4 ± 0.9	3 ± 0.7	5 ± 0.6	6 ± 1.3	6 ± 1.0
3.3	3 ± 0.3	3 ± 0.6	4 ± 0.3	5 ± 1.2	3 ± 0.6
10.0	2 ± 0.3	2 ± 0.0	4 ± 0.9	8 ± 1.2	5 ± 0.0
33.0	2 ± 0.7	3 ± 1.2	5 ± 0.9	7 ± 1.7	8 ± 0.3
100.0	Toxic	3 ± 1.0	6 ± 1.5	8 ± 2.7	3 ± 0.3
333.0	Toxic	3 ± 0.6	1 ± 0.3	6 ± 0.9	4 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			65 ± 2.3	211 ± 24.1	125 ± 16.2
Positive Control <sup>4</sup>	543 ± 68.0	1041 ± 154.2			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	6 ± 0.6
3.3	5 ± 0.7
10.0	5 ± 1.2
33.0	2 ± 0.7
100.0	4 ± 0.7
333.0	6 ± 1.2
Trial Summary	Negative
Positive Control <sup>2</sup>	261 ± 12.0
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>	16 ± 2.9	14 ± 1.9	25 ± 2.6	21 ± 3.8	27 ± 2.8
3.3	12 ± 2.1	16 ± 2.8	29 ± 0.9	20 ± 3.2	36 ± 1.0
10.0	18 ± 3.2	15 ± 0.3	25 ± 0.9	15 ± 3.2	27 ± 1.2
33.0	15 ± 2.3	11 ± 1.2	26 ± 1.2	22 ± 0.9	29 ± 1.2
100.0	17 ± 2.0	13 ± 0.9	25 ± 1.0	24 ± 1.5	21 ± 0.7
333.0	15 ± 1.8	10 ± 2.1	27 ± 2.7	22 ± 2.0	22 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			1741 ± 264.3	973 ± 201.3	1815 ± 76.3
Positive Control <sup>5</sup>	305 ± 47.0	359 ± 21.4			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	25 ± 1.2
3.3	23 ± 5.0
10.0	23 ± 1.2
33.0	25 ± 2.5
100.0	23 ± 2.0
333.0	17 ± 4.0
Trial Summary	Negative
Positive Control <sup>2</sup>	1969 ± 56.9
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 \*\***