

Experiment Number: 692593

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Eugenol

CAS Number: 97-53-0

Date Report Requested: 09/11/2018

Time Report Requested: 17:46:24

**NTP Study Number:**

692593

**Study Result:**

Negative

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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>	98 ± 6.4	99 ± 5.2	98 ± 0.9	113 ± 2.0	82 ± 3.0
3.3	100 ± 2.2	85 ± 3.2	100 ± 3.7	105 ± 3.7	104 ± 9.5
10.0	103 ± 2.4	80 ± 5.8	90 ± 1.2	104 ± 4.0	105 ± 3.7
33.3	97 ± 4.1	85 ± 5.3	95 ± 10.5	108 ± 2.6	122 ± 9.3
100.0	107 ± 11.2	73 ± 3.6	106 ± 3.5	107 ± 2.6	118 ± 9.5
333.3	33 ± 16.7 <sup>s</sup>	77 ± 2.2 <sup>s</sup>	87 ± 5.0	109 ± 3.0	90 ± 7.3
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control <sup>2</sup>			451 ± 31.9	460 ± 15.3	1255 ± 9.0
Positive Control <sup>3</sup>	465 ± 16.3	625 ± 28.8			

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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>	115 ± 8.7
3.3	124 ± 11.3
10.0	111 ± 11.0
33.3	111 ± 10.5
100.0	103 ± 8.5
333.3	107 ± 10.3
Trial Summary	Negative
Positive Control <sup>2</sup>	963 ± 104.3
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>	15 ± 1.8	20 ± 1.0	8 ± 1.2	13 ± 3.0	10 ± 2.7
3.3	17 ± 1.7	18 ± 3.8	9 ± 0.3	9 ± 1.0	8 ± 1.2
10.0	17 ± 2.3	16 ± 1.8	9 ± 2.0	10 ± 1.0	9 ± 2.0
33.3	21 ± 3.9	21 ± 1.5	7 ± 2.8	7 ± 0.3	11 ± 2.0
100.0	23 ± 2.5	22 ± 4.3	11 ± 0.7	11 ± 1.0	9 ± 1.5
333.3	13 ± 2.3 <sup>s</sup>	21 ± 1.5	9 ± 1.0	9 ± 1.9	9 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>	408 ± 12.4	444 ± 23.0			
Positive Control <sup>4</sup>			160 ± 7.9	305 ± 3.2	194 ± 10.8

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G06: Ames Summary Data  
Test Compound: Eugenol  
CAS Number: 97-53-0

Date Report Requested: 09/11/2018  
Time Report Requested: 17:46:24

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	13 ± 0.6
3.3	17 ± 3.5
10.0	10 ± 1.2
33.3	12 ± 2.3
100.0	13 ± 2.6
333.3	13 ± 2.9
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	268 ± 34.8

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**G06: Ames Summary Data**

Date Report Requested: 09/11/2018

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

Time Report Requested: 17:46:24

**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>	6 ± 1.7	8 ± 1.0	14 ± 0.9	14 ± 1.9	15 ± 2.7
3.3	7 ± 0.3	10 ± 0.9	18 ± 1.2	9 ± 0.9	18 ± 1.5
10.0	7 ± 1.2	7 ± 1.5	9 ± 1.7	13 ± 1.5	16 ± 2.4
33.3	6 ± 0.6	8 ± 1.8	7 ± 1.7	9 ± 3.2	14 ± 3.8
100.0	7 ± 0.6	6 ± 0.9	8 ± 0.6	11 ± 1.8	14 ± 1.0
333.3	1 ± 1.0 <sup>s</sup>	4 ± 1.2 <sup>s</sup>	8 ± 2.0	9 ± 1.7	8 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			493 ± 132.1	158 ± 10.6	376 ± 12.0
Positive Control <sup>5</sup>	97 ± 9.1	710 ± 64.7			

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**G06: Ames Summary Data**

Test Compound: Eugenol

CAS Number: 97-53-0

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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>	12 ± 2.7
3.3	11 ± 2.0
10.0	11 ± 0.7
33.3	14 ± 3.3
100.0	11 ± 2.2
333.3	14 ± 1.7
Trial Summary	Negative
Positive Control <sup>4</sup>	244 ± 5.8
Positive Control <sup>5</sup>	

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**G06: Ames Summary Data**

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

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**Strain: TA98**

<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>	18 ± 1.7	27 ± 3.1	34 ± 2.8	35 ± 2.3	32 ± 2.8
3.3	21 ± 5.3	21 ± 2.3	29 ± 3.7	37 ± 2.3	28 ± 2.0
10.0	18 ± 1.9	20 ± 2.6	26 ± 3.7	33 ± 6.2	32 ± 2.6
33.3	18 ± 3.8	17 ± 1.2	27 ± 3.2	46 ± 2.2	32 ± 2.5
100.0	17 ± 2.1	19 ± 4.2	23 ± 3.9	36 ± 1.9	24 ± 2.2
333.3	1 ± 1.0 <sup>s</sup>	13 ± 2.3	21 ± 4.6	36 ± 4.0	22 ± 2.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			268 ± 24.9	288 ± 3.0	855 ± 24.7
Positive Control <sup>6</sup>	561 ± 11.4	636 ± 3.4			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	37 ± 4.7
3.3	34 ± 3.3
10.0	44 ± 1.7
33.3	36 ± 2.1
100.0	37 ± 2.0
333.3	41 ± 1.5
Trial Summary	Negative
Positive Control <sup>2</sup>	1258 ± 130.5
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: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

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

s: Slight Toxicity

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