

Experiment Number: 690169

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Methyleugenol

CAS Number: 93-15-2

Date Report Requested: 09/13/2018

Time Report Requested: 02:27:49

**NTP Study Number:**

690169

**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>	120 ± 3.2	90 ± 6.4	111 ± 7.8	98 ± 8.1	106 ± 4.4
3.0	101 ± 0.0	86 ± 3.5		95 ± 5.3	
10.0	100 ± 6.4	93 ± 4.0	93 ± 3.3	94 ± 2.7	106 ± 4.6
33.0	114 ± 8.3	93 ± 10.7	109 ± 4.4	92 ± 4.3	109 ± 4.6
100.0	105 ± 11.6	96 ± 2.7	110 ± 0.7	91 ± 7.6	116 ± 7.0
333.0	29 ± 8.2 <sup>s</sup>	16 ± 13.1 <sup>s</sup>	95 ± 9.4	97 ± 2.6	99 ± 4.2
666.0			0 ± 0.0 <sup>s</sup>		38 ± 38.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			534 ± 46.0	351 ± 22.9	1469 ± 61.2
Positive Control <sup>3</sup>	358 ± 7.0	388 ± 4.3			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	103 ± 8.7
3.0	90 ± 8.0
10.0	89 ± 6.1
33.0	90 ± 6.8
100.0	80 ± 14.4
333.0	78 ± 1.0
666.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	1111 ± 49.2
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>	24 ± 2.6	20 ± 3.5	10 ± 2.2	9 ± 0.6	10 ± 2.4
3.0	37 ± 0.6	20 ± 2.3		6 ± 0.0	
10.0	33 ± 2.0	21 ± 2.3	8 ± 0.9	7 ± 0.3	13 ± 3.5
33.0	37 ± 7.5	22 ± 3.3	9 ± 0.0	9 ± 2.6	14 ± 1.5
100.0	32 ± 3.5	26 ± 2.7	6 ± 1.5	7 ± 1.0	11 ± 2.2
333.0	5 ± 5.0 <sup>s</sup>	2 ± 0.7 <sup>s</sup>	4 ± 0.3	8 ± 0.9	10 ± 2.1
666.0			0 ± 0.0 <sup>s</sup>		4 ± 2.6 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>	375 ± 15.5	410 ± 15.2			
Positive Control <sup>4</sup>			146 ± 2.8	168 ± 21.2	381 ± 7.9

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	12 ± 2.1
3.0	8 ± 0.9
10.0	8 ± 2.3
33.0	9 ± 2.8
100.0	10 ± 3.7
333.0	9 ± 2.3
666.0	
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	369 ± 20.8

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Test Compound: Methyleugenol

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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>	5 ± 0.6	5 ± 0.3	7 ± 0.7	6 ± 0.9	6 ± 1.0
3.0	6 ± 1.5	3 ± 0.9		8 ± 2.1	
10.0	4 ± 1.2	3 ± 0.9	5 ± 0.9	4 ± 1.0	5 ± 1.2
33.0	5 ± 0.3	4 ± 1.2	4 ± 0.3	9 ± 1.5	5 ± 1.5
100.0	4 ± 1.5	4 ± 0.6	7 ± 0.0	7 ± 1.2	6 ± 1.5
333.0	0 ± 0.0 <sup>s</sup>	3 ± 0.3 <sup>s</sup>	6 ± 0.3	5 ± 2.2	3 ± 1.2
666.0			0 ± 0.0 <sup>s</sup>		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			157 ± 8.7	124 ± 11.9	424 ± 75.9
Positive Control <sup>5</sup>	184 ± 4.7	521 ± 48.1			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	5 ± 0.3
3.0	9 ± 1.5
10.0	6 ± 0.9
33.0	5 ± 1.2
100.0	5 ± 1.0
333.0	4 ± 1.3
666.0	
Trial Summary	Negative
Positive Control <sup>4</sup>	426 ± 15.5
Positive Control <sup>5</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>	15 ± 0.6	16 ± 1.7	17 ± 3.6	20 ± 4.1	25 ± 2.2
3.0	15 ± 0.7	13 ± 2.2		27 ± 0.9	
10.0	15 ± 1.0	14 ± 0.9	24 ± 2.7	23 ± 2.6	27 ± 3.5
33.0	15 ± 0.9	13 ± 1.8	29 ± 2.0	20 ± 2.3	31 ± 5.8
100.0	14 ± 3.5	13 ± 0.9	20 ± 3.5	29 ± 5.5	28 ± 0.7
333.0	0 ± 0.0 <sup>s</sup>	3 ± 3.0 <sup>s</sup>	29 ± 5.0	19 ± 0.3	15 ± 7.7 <sup>s</sup>
666.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			473 ± 34.3	444 ± 76.4	1274 ± 85.7
Positive Control <sup>6</sup>	626 ± 20.6	412 ± 8.2			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	31 ± 3.7
3.0	31 ± 4.0
10.0	28 ± 2.3
33.0	26 ± 1.2
100.0	29 ± 6.0
333.0	21 ± 2.7
666.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	1362 ± 55.5
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 \*\*