

Experiment Number: 169496

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: o-Methoxycinnamaldehyde

CAS Number: 1504-74-1

Date Report Requested: 09/13/2018

Time Report Requested: 02:59:08

**NTP Study Number:**

169496

**Study Result:**

Weakly Positive

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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>	186 ± 4.3	124 ± 0.7	186 ± 0.6	94 ± 3.3	157 ± 7.1
3.3	167 ± 10.5				
10.0	160 ± 3.2	100 ± 2.4	184 ± 16.2		156 ± 8.4
33.0	195 ± 6.1	94 ± 5.2	186 ± 4.4	116 ± 13.3	151 ± 3.8
100.0	177 ± 13.0	103 ± 13.1	263 ± 7.0	165 ± 5.2	157 ± 8.8
250.0		90 ± 2.5 <sup>s</sup>		191 ± 11.2	
333.0	71 ± 6.9 <sup>s</sup>	69 ± 11.3 <sup>s</sup>	345 ± 9.0	163 ± 3.2 <sup>s</sup>	221 ± 12.1
500.0				57 ± 4.4 <sup>s</sup>	
666.0			Toxic		Toxic
Trial Summary	Negative	Negative	Weakly Positive	Weakly Positive	Equivocal
Positive Control <sup>2</sup>					759 ± 23.8
Positive Control <sup>3</sup>			941 ± 4.4	545 ± 29.8	
Positive Control <sup>4</sup>	1726 ± 34.7	552 ± 5.4			

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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>	83 ± 3.8
3.3	
10.0	
33.0	81 ± 7.2
100.0	92 ± 4.6
250.0	127 ± 6.2
333.0	155 ± 13.3 <sup>s</sup>
500.0	63 ± 3.0 <sup>s</sup>
666.0	
Trial Summary	Weakly Positive
Positive Control <sup>2</sup>	473 ± 28.5
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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**Strain: TA1535**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	47 ± 4.8	26 ± 4.9	23 ± 1.2
3.3	45 ± 4.7		
10.0	43 ± 3.1	25 ± 3.1	22 ± 3.8
33.0	50 ± 2.6	25 ± 4.1	19 ± 2.0
100.0	43 ± 4.4	26 ± 1.9	17 ± 1.2
333.0	Toxic	23 ± 0.6	15 ± 1.2
666.0		Toxic	Toxic
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			118 ± 16.5
Positive Control <sup>3</sup>		151 ± 5.7	
Positive Control <sup>4</sup>	1257 ± 30.2		

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	6 ± 0.6	9 ± 0.9	10 ± 0.9
3.3	7 ± 1.2		
10.0	10 ± 1.5	11 ± 2.0	12 ± 0.9
33.0	8 ± 0.9	11 ± 2.7	10 ± 2.3
100.0	11 ± 2.2	7 ± 0.9	9 ± 0.3
333.0	Toxic	8 ± 0.3	10 ± 1.5
666.0		Toxic	5 ± 1.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			49 ± 1.3
Positive Control <sup>3</sup>		59 ± 4.5	
Positive Control <sup>5</sup>	352 ± 41.6		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	25 ± 0.7	32 ± 2.0	33 ± 5.9
3.3	13 ± 3.2		
10.0	19 ± 1.5	31 ± 2.5	25 ± 4.7
33.0	16 ± 2.6	35 ± 1.0	27 ± 2.0
100.0	16 ± 2.6	30 ± 1.0	29 ± 3.3
333.0	14 ± 0.7 <sup>s</sup>	27 ± 5.3	32 ± 3.2
666.0		Toxic	Toxic
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			680 ± 28.0
Positive Control <sup>3</sup>		542 ± 9.2	
Positive Control <sup>6</sup>	1003 ± 57.6		

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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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

\*\* END OF REPORT \*\*