

Experiment Number: 097471

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Crotonaldehyde

CAS Number: 4170-30-3

Date Report Requested: 09/11/2018

Time Report Requested: 12:57:09

**NTP Study Number:**

097471

**Study Result:**

Positive

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## G06: Ames Summary Data

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CAS Number: 4170-30-3

Date Report Requested: 09/11/2018

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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>	138 ± 8.8	79 ± 2.5	120 ± 8.8	71 ± 2.2	111 ± 3.2
3.3	161 ± 18.4		114 ± 3.2		109 ± 6.4
10.0	133 ± 9.1		114 ± 5.5		96 ± 3.8
33.0	134 ± 8.0	77 ± 2.0	115 ± 12.4	64 ± 5.4	94 ± 8.3
100.0	118 ± 11.8	106 ± 12.1	143 ± 7.8	82 ± 2.5	132 ± 7.3
200.0		151 ± 1.2		133 ± 3.2	
250.0		159 ± 7.8 <sup>s</sup>		173 ± 2.6	
300.0		153 ± 3.7 <sup>s</sup>		207 ± 19.8	
333.0	Toxic		308 ± 29.5		306 ± 31.1
350.0				218 ± 9.2 <sup>s</sup>	
400.0				268 ± 3.0 <sup>s</sup>	
450.0				157 ± 68.3 <sup>s</sup>	
Trial Summary	Negative	Positive	Equivocal	Positive	Equivocal
Positive Control <sup>2</sup>					1616 ± 76.8
Positive Control <sup>3</sup>			1147 ± 80.0	1252 ± 40.3	
Positive Control <sup>4</sup>	2436 ± 114.0	2079 ± 53.8			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	71 ± 3.8
3.3	
10.0	
33.0	70 ± 8.1
100.0	76 ± 4.2
200.0	107 ± 6.1
250.0	127 ± 5.6
300.0	177 ± 5.0
333.0	
350.0	184 ± 28.6
400.0	195 ± 9.0 <sup>s</sup>
450.0	133 ± 62.6
Trial Summary	Positive
Positive Control <sup>2</sup>	2014 ± 87.5
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>	21 ± 1.5	12 ± 1.9	8 ± 1.2
3.3	30 ± 2.0	9 ± 0.9	7 ± 1.8
10.0	27 ± 3.2	10 ± 1.8	8 ± 2.6
33.0	24 ± 1.8	10 ± 1.5	10 ± 1.5
100.0	21 ± 0.9	9 ± 2.4	9 ± 2.5
333.0	Toxic	9 ± 1.5	12 ± 0.7
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			177 ± 2.3
Positive Control <sup>3</sup>		78 ± 17.0	
Positive Control <sup>4</sup>	2170 ± 20.0		

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**G06: Ames Summary Data**

Test Compound: Crotonaldehyde

CAS Number: 4170-30-3

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**Strain: TA1537**

<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>	7 ± 2.6	10 ± 1.5	5 ± 1.0
3.3	5 ± 0.3	8 ± 1.7	9 ± 2.3
10.0	7 ± 3.2	9 ± 0.9	11 ± 2.2
33.0	8 ± 1.8	10 ± 1.2	12 ± 2.6
100.0	8 ± 0.9	11 ± 1.2	11 ± 1.5
333.0	Toxic	9 ± 1.2	8 ± 0.6
Trial Summary	Negative	Negative	Equivocal
Positive Control <sup>2</sup>			167 ± 1.7
Positive Control <sup>3</sup>		81 ± 3.0	
Positive Control <sup>5</sup>	542 ± 29.6		

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**Strain: TA98**

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	18 ± 2.1	32 ± 5.8	35 ± 3.8
3.3	19 ± 1.8	35 ± 2.8	36 ± 2.4
10.0	19 ± 2.6	31 ± 1.9	35 ± 4.2
33.0	23 ± 3.8	29 ± 4.5	26 ± 0.9
100.0	13 ± 0.6 <sup>s</sup>	34 ± 5.7	31 ± 3.5
333.0	Toxic	32 ± 0.9	37 ± 4.3
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			1768 ± 118.5
Positive Control <sup>3</sup>		1194 ± 7.0	
Positive Control <sup>6</sup>	1758 ± 50.1		

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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 \*\***