

Experiment Number: A98429

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 2,4-Hexadienal

CAS Number: 142-83-6

Date Report Requested: 09/15/2018

Time Report Requested: 17:25:57

**NTP Study Number:**

A98429

**Study Result:**

Positive

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## G06: Ames Summary Data

Test Compound: 2,4-Hexadienal

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	141 ± 3.5	103 ± 2.4	144 ± 3.5	116 ± 3.2	139 ± 3.2
50.0	135 ± 3.2	105 ± 3.2			
75.0	138 ± 1.8	109 ± 1.2			
100.0	135 ± 2.6	120 ± 1.2			
125.0	142 ± 2.8	117 ± 2.1			
150.0	139 ± 2.4	119 ± 2.3			
500.0			317 ± 3.5	321 ± 2.3	164 ± 2.2
750.0			355 ± 5.0	305 ± 4.2	156 ± 3.6
1000.0			514 ± 5.0	464 ± 2.6	152 ± 3.5
1250.0			723 ± 4.6	656 ± 3.5	240 ± 3.7
1500.0			225 ± 5.7	206 ± 2.4	233 ± 4.3
Trial Summary	Negative	Negative	Positive	Positive	Weakly Positive
Positive Control <sup>2</sup>			457 ± 9.0	414 ± 13.2	859 ± 32.9
Positive Control <sup>3</sup>	591 ± 5.8	458 ± 17.5			

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	104 ± 2.0
50.0	
75.0	
100.0	
125.0	
150.0	
500.0	167 ± 1.7
750.0	161 ± 3.2
1000.0	171 ± 3.2
1250.0	260 ± 2.3
1500.0	263 ± 4.3
Trial Summary	Positive
Positive Control <sup>2</sup>	532 ± 10.1
Positive Control <sup>3</sup>	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	20 ± 1.9	17 ± 1.9	18 ± 1.5
50.0	17 ± 1.7		
75.0	17 ± 1.0		
100.0	21 ± 1.9		
125.0	17 ± 1.2		
150.0	13 ± 1.5		
500.0		19 ± 1.5	17 ± 2.0
750.0		19 ± 2.5	20 ± 1.9
1000.0		20 ± 2.3	18 ± 1.5
1250.0		21 ± 1.2	19 ± 2.6
1500.0		19 ± 2.0	23 ± 2.3
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>		243 ± 8.7	253 ± 8.4
Positive Control <sup>3</sup>	267 ± 8.1		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	24 ± 2.1	34 ± 3.2	33 ± 2.3
50.0	21 ± 2.0		
75.0	18 ± 2.0		
100.0	20 ± 1.8		
125.0	20 ± 1.5		
150.0	18 ± 1.2		
500.0		29 ± 0.9	37 ± 2.4
750.0		35 ± 1.5	37 ± 3.3
1000.0		37 ± 3.0	40 ± 2.0
1250.0		22 ± 3.5	35 ± 2.6
1500.0		34 ± 2.4	29 ± 1.5
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>		425 ± 8.4	487 ± 21.8
Positive Control <sup>4</sup>	264 ± 7.8		

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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: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

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