

Experiment Number: 024764

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Dimenhydrinate

CAS Number: 523-87-5

Date Report Requested: 09/14/2018

Time Report Requested: 13:23:48

**NTP Study Number:** 024764

**Study Result:** Positive

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CAS Number: 523-87-5

Date Report Requested: 09/14/2018

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**Strain: TA100**

<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>	130 ± 3.2	114 ± 5.7	91 ± 3.5
33.0	130 ± 6.0	101 ± 8.2	94 ± 7.7
100.0	131 ± 4.0	116 ± 7.7	91 ± 2.6
333.0	144 ± 4.3	98 ± 1.8	91 ± 2.5
1000.0	164 ± 10.1 <sup>s</sup>	111 ± 5.4	94 ± 3.5 <sup>s</sup>
2000.0	100 ± 10.5 <sup>s</sup>		
3333.0		92 ± 5.2 <sup>s</sup>	84 ± 8.4 <sup>s</sup>
Trial Summary	Equivocal	Negative	Negative
Positive Control <sup>2</sup>			2974 ± 99.0
Positive Control <sup>3</sup>		1996 ± 14.6	
Positive Control <sup>4</sup>	1466 ± 5.8		

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	44 ± 1.3	25 ± 3.3	25 ± 2.3	15 ± 1.3	14 ± 3.0
33.0	41 ± 0.6	34 ± 7.3	31 ± 1.7	12 ± 3.0	15 ± 0.3
100.0	45 ± 5.1	44 ± 5.3	45 ± 3.5	13 ± 2.1	12 ± 2.4
333.0	63 ± 7.8	51 ± 3.2	53 ± 3.7	18 ± 3.0	13 ± 3.0
500.0		65 ± 4.9	66 ± 3.2		
1000.0	94 ± 6.4 <sup>s</sup>	73 ± 11.9 <sup>s</sup>	83 ± 3.8	9 ± 0.7	12 ± 1.2
2000.0	81 ± 7.1 <sup>s</sup>	81 ± 8.1 <sup>s</sup>	58 ± 13.4 <sup>s</sup>		
3333.0				8 ± 1.3 <sup>s</sup>	11 ± 1.5 <sup>s</sup>
Trial Summary	Positive	Positive	Positive	Negative	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>				132 ± 13.4	122 ± 8.1
Positive Control <sup>4</sup>	1113 ± 9.7	961 ± 36.6	815 ± 9.7		

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	15 ± 2.1	15 ± 2.3
33.0	13 ± 3.8	12 ± 2.1
100.0	15 ± 2.7	13 ± 2.6
333.0	16 ± 2.6	12 ± 1.5
500.0		
1000.0	19 ± 2.3 <sup>s</sup>	19 ± 3.2
2000.0		
3333.0	8 ± 1.5 <sup>s</sup>	15 ± 1.2 <sup>s</sup>
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>	203 ± 6.2	97 ± 3.8
Positive Control <sup>3</sup>		
Positive Control <sup>4</sup>		

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	92 ± 1.2	133 ± 5.6	115 ± 8.9
33.0	96 ± 6.3	126 ± 9.5	129 ± 7.4
100.0	104 ± 9.6	126 ± 4.5	119 ± 6.7
333.0	96 ± 3.8	149 ± 8.8	136 ± 6.5
1000.0	87 ± 8.2 <sup>s</sup>	151 ± 15.0 <sup>s</sup>	136 ± 0.9 <sup>s</sup>
2000.0	62 ± 0.5 <sup>s</sup>		
3333.0		54 ± 3.0 <sup>s</sup>	60 ± 6.2 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			1725 ± 61.1
Positive Control <sup>3</sup>		1548 ± 16.9	
Positive Control <sup>5</sup>	808 ± 36.1		

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**Strain: TA98**

<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 ± 6.2	41 ± 2.6	44 ± 4.6
33.0	17 ± 2.3	33 ± 2.2	34 ± 2.2
100.0	16 ± 2.0	30 ± 2.6	38 ± 5.0
333.0	17 ± 1.5	30 ± 0.7	41 ± 4.5
1000.0	13 ± 1.9 <sup>s</sup>	35 ± 2.7	38 ± 8.2
2000.0	14 ± 2.4 <sup>s</sup>		
3333.0		39 ± 1.5 <sup>s</sup>	42 ± 0.9 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			2744 ± 78.1
Positive Control <sup>3</sup>		2193 ± 30.1	
Positive Control <sup>6</sup>	1503 ± 6.7		

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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: 4.0 ug/Plate 9-Aminoacridine

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

s: Slight Toxicity

\*\* END OF REPORT \*\*