

Experiment Number: 904928

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Amyl nitrite

CAS Number: 463-04-7

Date Report Requested: 09/16/2018

Time Report Requested: 23:39:46

**NTP Study Number:**

904928

**Study Result:**

Weakly Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	82 ± 3.1	87 ± 0.3	125 ± 2.5
3.3	87 ± 6.1	85 ± 6.0	124 ± 14.4
10.0	90 ± 6.7	104 ± 14.2	116 ± 6.7
33.0	79 ± 5.2	100 ± 12.6	120 ± 13.5
100.0	77 ± 7.4	92 ± 13.8	126 ± 1.2
333.0	33 ± 7.8	89 ± 10.4	121 ± 7.3
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>	184 ± 4.8		
Positive Control <sup>3</sup>			456 ± 36.1
Positive Control <sup>4</sup>		332 ± 36.7	

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## Strain: TA1535

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	16 ± 3.1	10 ± 0.3	13 ± 1.0	9 ± 2.0	13 ± 0.6
3.3	20 ± 1.0				
10.0	14 ± 1.5	9 ± 0.3		7 ± 1.0	
33.0	19 ± 2.1	12 ± 0.6	13 ± 0.9	8 ± 1.2	14 ± 1.5
100.0	20 ± 2.9	15 ± 1.2	13 ± 1.2	9 ± 0.7	15 ± 1.2
333.0	18 ± 2.5 <sup>s</sup>	25 ± 1.2	18 ± 2.8	16 ± 2.1	25 ± 1.8
500.0			33 ± 4.9		29 ± 1.2
666.0		33 ± 4.6 <sup>s</sup>	25 ± 2.1	19 ± 1.2 <sup>s</sup>	22 ± 3.8 <sup>s</sup>
Trial Summary	Negative	Weakly Positive	Weakly Positive	Equivocal	Weakly Positive
Positive Control <sup>2</sup>	184 ± 5.5				
Positive Control <sup>3</sup>				122 ± 14.1	245 ± 9.9
Positive Control <sup>4</sup>		122 ± 10.1	126 ± 1.5		

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	5 ± 0.6	8 ± 2.3	8 ± 1.3
3.3	5 ± 0.6		
10.0	7 ± 1.8	5 ± 0.6	6 ± 1.2
33.0	4 ± 0.3	8 ± 0.3	7 ± 0.9
100.0	3 ± 1.3	7 ± 1.2	8 ± 0.7
333.0	3 ± 1.2 <sup>s</sup>	9 ± 2.3	10 ± 2.5
666.0		4 ± 1.0 <sup>s</sup>	6 ± 1.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>5</sup>		64 ± 3.1	31 ± 1.5
Positive Control <sup>6</sup>	87 ± 3.0		

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Strain: TA97

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	82 ± 1.5	146 ± 10.7	149 ± 7.5
3.3	90 ± 6.0		
10.0	83 ± 6.1	163 ± 1.5	135 ± 8.5
33.0	81 ± 3.5	166 ± 3.0	138 ± 2.9
100.0	88 ± 3.0	156 ± 9.6	116 ± 13.7
333.0	57 ± 9.0 <sup>s</sup>	129 ± 5.9	133 ± 1.2
666.0		108 ± 9.2 <sup>s</sup>	97 ± 2.6 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>5</sup>		417 ± 26.4	404 ± 7.8
Positive Control <sup>7</sup>	193 ± 10.5		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	17 ± 2.3	15 ± 0.6	21 ± 1.3
3.3	17 ± 0.3	16 ± 3.5	18 ± 2.5
10.0	13 ± 1.5	12 ± 3.1	18 ± 0.7
33.0	19 ± 1.5	16 ± 0.6	18 ± 1.8
100.0	13 ± 3.2	18 ± 4.1	23 ± 2.4
333.0	11 ± 2.7	17 ± 2.1	22 ± 3.0
Trial Summary	Negative	Negative	Negative
Positive Control <sup>8</sup>			47 ± 1.7
Positive Control <sup>3</sup>		77 ± 3.5	
Positive Control <sup>9</sup>	58 ± 2.3		

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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: 0.5 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate 2-Aminoanthracene

6: 4.0 ug/Plate 9-Aminoacridine

7: 8.0 ug/Plate 9-Aminoacridine

8: 0.4 ug/Plate 2-Aminoanthracene

9: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

\*\* END OF REPORT \*\*