

Experiment Number: 143235

Test Type: **Genetic Toxicology - Bacterial  
Mutagenicity**

**G06: Ames Summary Data**

Test Compound: **Amyl nitrite**

CAS Number: **463-04-7**

Date Report Requested: **09/12/2018**

Time Report Requested: **13:59:43**

**NTP Study Number:**

143235

**Study Result:**

Weakly Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 5% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	131 ± 10.7	131 ± 4.0	126 ± 0.9	112 ± 9.4	140 ± 3.8
100.0	126 ± 1.9	105 ± 2.2			
333.0	140 ± 6.3	101 ± 6.1	148 ± 8.4	138 ± 10.5	168 ± 7.7
1000.0	123 ± 3.1	113 ± 6.4	168 ± 2.5	167 ± 8.0	150 ± 8.1
3333.0	145 ± 1.9	173 ± 5.7	191 ± 4.5	195 ± 2.3	195 ± 11.1
6666.0			202 ± 15.0	157 ± 10.5	206 ± 3.8
10000.0	147 ± 22.4	164 ± 7.3	243 ± 10.8	193 ± 16.4	213 ± 10.4
Trial Summary	Negative	Equivocal	Weakly Positive	Weakly Positive	Weakly Positive
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>			910 ± 27.6	923 ± 10.4	673 ± 72.3
Positive Control <sup>4</sup>	342 ± 0.6	433 ± 32.1			
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>					

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 5% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	155 ± 13.9	135 ± 3.3	136 ± 11.5	95 ± 3.9	137 ± 11.1
100.0	173 ± 4.2				
333.0	151 ± 14.8	149 ± 1.7	143 ± 12.3	134 ± 7.8	160 ± 9.2
1000.0	183 ± 4.4	151 ± 8.0	144 ± 4.6	155 ± 3.2	155 ± 10.7
3333.0	173 ± 5.8	185 ± 4.9	201 ± 9.3	208 ± 9.1	203 ± 22.8
6666.0		157 ± 3.1	206 ± 15.0	258 ± 2.8	191 ± 11.2
10000.0	177 ± 2.7	175 ± 14.2	222 ± 7.6	213 ± 2.9	186 ± 3.3
Trial Summary	Negative	Equivocal	Weakly Positive	Positive	Equivocal
Positive Control <sup>2</sup>			1305 ± 33.1		854 ± 30.9
Positive Control <sup>3</sup>				1844 ± 80.4	
Positive Control <sup>4</sup>					
Positive Control <sup>5</sup>	573 ± 23.8				
Positive Control <sup>6</sup>		549 ± 44.1			

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	140 ± 14.3	157 ± 4.0
100.0	165 ± 5.2	
333.0	177 ± 5.9	158 ± 5.0
1000.0	167 ± 5.4	157 ± 8.1
3333.0	163 ± 15.3	190 ± 12.5
6666.0		189 ± 3.8
10000.0	183 ± 3.2	216 ± 18.2
Trial Summary	Equivocal	Equivocal
Positive Control <sup>2</sup>		
Positive Control <sup>3</sup>	651 ± 26.5	650 ± 30.1
Positive Control <sup>4</sup>		
Positive Control <sup>5</sup>		
Positive Control <sup>6</sup>		

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 5% Rat S9
Vehicle Control <sup>1</sup>	18 ± 1.5	19 ± 2.9	15 ± 0.3	19 ± 1.2	13 ± 2.4
100.0	31 ± 7.2			13 ± 0.6	
333.0	17 ± 0.3	19 ± 2.7		11 ± 3.5	11 ± 2.0
1000.0	26 ± 3.2	19 ± 1.7	18 ± 2.6	13 ± 1.0	15 ± 1.8
3333.0	29 ± 1.2	12 ± 2.1	22 ± 4.2	18 ± 1.0	18 ± 2.7
6666.0		24 ± 2.3	24 ± 1.9		21 ± 1.3
10000.0	46 ± 3.3	47 ± 11.2	34 ± 4.0	18 ± 2.7	17 ± 1.7
15000.0			34 ± 3.5		
Trial Summary	Equivocal	Equivocal	Weakly Positive	Negative	Negative
Positive Control <sup>3</sup>					
Positive Control <sup>4</sup>	353 ± 13.1	487 ± 13.0	208 ± 3.1	333 ± 14.0	
Positive Control <sup>6</sup>					179 ± 15.5
Positive Control <sup>7</sup>					

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**Strain: TA1535**

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	8 ± 0.6	13 ± 1.0	24 ± 1.8	10 ± 0.6	7 ± 1.2
100.0	7 ± 1.7		15 ± 1.5		7 ± 2.0
333.0	11 ± 1.2	11 ± 0.9	20 ± 3.1	7 ± 0.9	10 ± 2.0
1000.0	5 ± 1.2	11 ± 1.3	29 ± 2.4	15 ± 2.3	11 ± 1.2
3333.0	16 ± 2.5	21 ± 2.0	17 ± 2.0	12 ± 2.3	10 ± 0.7
6666.0		15 ± 3.8		22 ± 2.5	
10000.0	15 ± 1.2	12 ± 1.2 <sup>s</sup>	22 ± 1.5	20 ± 3.4	29 ± 5.5
15000.0					
Trial Summary	Negative	Negative	Negative	Equivocal	Equivocal
Positive Control <sup>3</sup>				191 ± 10.1	247 ± 21.4
Positive Control <sup>4</sup>					
Positive Control <sup>6</sup>	153 ± 6.6	143 ± 3.3			
Positive Control <sup>7</sup>			157 ± 9.3		

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	9 ± 1.5	12 ± 0.9
100.0		13 ± 2.2
333.0	9 ± 1.2	11 ± 0.9
1000.0	13 ± 2.0	14 ± 0.9
3333.0	12 ± 1.5	15 ± 0.7
6666.0	12 ± 0.3	
10000.0	4 ± 2.1 <sup>s</sup>	20 ± 9.0
15000.0		
Trial Summary	Negative	Negative
Positive Control <sup>3</sup>	209 ± 21.1	
Positive Control <sup>4</sup>		
Positive Control <sup>6</sup>		439 ± 14.0
Positive Control <sup>7</sup>		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	25 ± 4.2	36 ± 3.8	39 ± 1.2
100.0	20 ± 2.7	32 ± 2.9	37 ± 5.8
333.0	27 ± 6.2	27 ± 2.2	35 ± 4.8
1000.0	26 ± 1.2	37 ± 0.6	42 ± 1.5
3333.0	27 ± 4.2	33 ± 2.2	43 ± 4.9
10000.0	14 ± 6.8	48 ± 5.1	41 ± 1.0
Trial Summary	Negative	Negative	Negative
Positive Control <sup>3</sup>		114 ± 13.0	286 ± 11.4
Positive Control <sup>8</sup>	603 ± 42.7		



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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: Water

2: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.0 ug/Plate 2-Aminoanthracene

6: 2.5 ug/Plate 2-Aminoanthracene

7: 5.0 ug/Plate 2-Aminoanthracene

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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