

Experiment Number: 555017

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

G06: Ames Summary Data

Test Compound: **Amyl nitrite**

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

Date Report Requested: **09/13/2018**

Time Report Requested: **21:53:09**

NTP Study Number:

555017

Study Result:

Positive

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Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	109 ± 8.8	106 ± 5.4	153 ± 7.2	131 ± 10.4	138 ± 4.4
10.0		99 ± 7.5			
33.0	135 ± 10.8	101 ± 4.0		147 ± 17.8	
100.0	140 ± 1.2	102 ± 5.9	148 ± 9.0	133 ± 3.6	129 ± 3.4
333.0	148 ± 1.2	100 ± 0.9	148 ± 8.7	148 ± 19.5	161 ± 7.1
666.0		75 ± 16.7			
1000.0	36 ± 14.7 ^s		135 ± 21.7	156 ± 8.1	180 ± 4.6
1666.0				68 ± 8.4 ^s	
3333.0	Toxic		27 ± 4.7 ^s		11 ± 4.9 ^s
6666.0			9 ± 3.8 ^s		0 ± 0.0 ^s
Trial Summary	Equivocal	Negative	Negative	Negative	Equivocal
Positive Control ²			484 ± 11.3	872 ± 8.7	1723 ± 53.7
Positive Control ³	707 ± 12.3	378 ± 17.8			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	106 ± 9.6
10.0	
33.0	111 ± 1.2
100.0	116 ± 4.1
333.0	129 ± 9.2
666.0	
1000.0	189 ± 4.7
1666.0	84 ± 17.6
3333.0	
6666.0	
Trial Summary	Equivocal
Positive Control ²	1557 ± 21.9
Positive Control ³	

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Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	21 ± 2.6	19 ± 0.9	7 ± 0.6	10 ± 0.6	10 ± 2.2
10.0		15 ± 1.2			
33.0	30 ± 1.2	14 ± 3.5		8 ± 1.0	
100.0	27 ± 1.3	19 ± 4.9	16 ± 2.2	8 ± 1.3	11 ± 2.5
333.0	29 ± 2.1	19 ± 3.2	18 ± 0.3	13 ± 0.9	25 ± 3.8
666.0		15 ± 3.0 ^s			
1000.0	2 ± 1.2 ^s		27 ± 2.8	24 ± 1.3	34 ± 3.8
1666.0				14 ± 4.5 ^s	
3333.0	Toxic		4 ± 2.3 ^s		9 ± 5.7 ^s
6666.0			Toxic		0 ± 0.0 ^s
Trial Summary	Negative	Negative	Weakly Positive	Equivocal	Positive
Positive Control ³	617 ± 8.7	300 ± 5.5			
Positive Control ⁴			207 ± 7.3	199 ± 5.8	627 ± 8.1

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.9
10.0	
33.0	8 ± 2.9
100.0	11 ± 0.6
333.0	16 ± 3.1
666.0	
1000.0	25 ± 2.0
1666.0	27 ± 1.7
3333.0	
6666.0	
Trial Summary	Positive
Positive Control ³	
Positive Control ⁴	337 ± 22.0

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	150 ± 15.3	187 ± 4.4	175 ± 17.6
10.0	138 ± 11.3		
33.0	154 ± 3.5	162 ± 19.9	162 ± 6.7
100.0	157 ± 15.2	161 ± 13.9	177 ± 11.5
333.0	126 ± 8.3	158 ± 25.6	166 ± 14.0
666.0	108 ± 10.9 ^s		
1000.0		104 ± 12.0	151 ± 13.9
1666.0		58 ± 27.2 ^s	80 ± 2.3 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ⁴		1246 ± 21.4	1253 ± 37.7
Positive Control ⁵	1698 ± 30.5		

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Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	15 ± 0.6	24 ± 2.6	19 ± 3.0
10.0	10 ± 1.9		
33.0	12 ± 1.9	22 ± 3.2	16 ± 1.2
100.0	7 ± 1.5	24 ± 3.8	24 ± 3.5
333.0	5 ± 1.5	21 ± 1.7	19 ± 0.6
666.0	5 ± 1.7 ^s		
1000.0		17 ± 2.4	15 ± 6.2
1666.0		8 ± 2.0 ^s	6 ± 2.8 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²		532 ± 24.0	901 ± 38.0
Positive Control ⁶	733 ± 33.7		

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LEGEND

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: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 4-Nitro-O-Phenylenediamine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****