

Experiment Number: 704674

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: 12:58:30

NTP Study Number:

704674

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	91 ± 3.2	91 ± 1.8	89 ± 4.3
3.3	81 ± 9.4		
10.0	78 ± 4.4	87 ± 8.5	70 ± 4.7
33.0	85 ± 2.3	93 ± 1.9	80 ± 6.7
100.0	87 ± 7.1	106 ± 5.5	93 ± 2.1
333.0	100 ± 6.4 ^s	125 ± 2.3	100 ± 3.2
1000.0		94 ± 6.0 ^s	92 ± 9.3 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			379 ± 35.9
Positive Control ³	366 ± 4.6		
Positive Control ⁴		900 ± 31.3	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	16 ± 4.0	8 ± 1.0	11 ± 2.2	6 ± 0.7	11 ± 1.7
3.3	17 ± 1.2				
10.0	23 ± 2.7	7 ± 2.8			
33.0	18 ± 3.0	10 ± 0.6	15 ± 2.0	6 ± 1.2	9 ± 2.6
100.0	14 ± 1.2	8 ± 0.7	16 ± 1.0	9 ± 1.2	13 ± 4.6
333.0	21 ± 3.4 ^s	14 ± 4.0	19 ± 1.7	18 ± 3.5	24 ± 3.5
667.0			31 ± 3.5 ^s	19 ± 4.2 ^s	35 ± 3.6
1000.0		22 ± 4.8 ^s	29 ± 3.0 ^s	15 ± 4.1 ^s	39 ± 0.9 ^s
Trial Summary	Negative	Equivocal	Weakly Positive	Weakly Positive	Positive
Positive Control ²					
Positive Control ³	181 ± 6.4				
Positive Control ⁵					
Positive Control ⁶					72 ± 11.3
Positive Control ⁷		177 ± 7.2	186 ± 13.9	210 ± 17.1	

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Strain: TA1535

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	9 ± 0.6	7 ± 1.8	49 ± 3.3	6 ± 1.5	68 ± 8.2
3.3					
10.0		7 ± 1.9			
33.0	10 ± 2.0	8 ± 0.0	34 ± 5.5	10 ± 2.3	47 ± 5.4
100.0	11 ± 0.9	8 ± 2.6	34 ± 1.5	8 ± 1.7	48 ± 15.6
333.0	24 ± 2.5	15 ± 3.0	47 ± 7.1	18 ± 6.9	50 ± 4.7
667.0	32 ± 2.8		34 ± 4.0 ^s	22 ± 1.0 ^s	71 ± 1.3 ^s
1000.0	34 ± 6.8	26 ± 4.5 ^s	41 ± 7.6 ^s	25 ± 2.6 ^s	72 ± 3.5 ^s
Trial Summary	Positive	Positive	Negative	Positive	Negative
Positive Control ²		45 ± 2.3	122 ± 2.4	61 ± 7.1	
Positive Control ³					
Positive Control ⁵					
Positive Control ⁶					150 ± 0.6
Positive Control ⁷	90 ± 5.0				

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 1.5
3.3	
10.0	
33.0	7 ± 0.6
100.0	12 ± 1.5
333.0	22 ± 0.3
667.0	28 ± 1.8
1000.0	35 ± 2.7 ^s
Trial Summary	Positive
Positive Control ²	
Positive Control ³	
Positive Control ⁵	97 ± 2.2
Positive Control ⁶	
Positive Control ⁷	

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	91 ± 2.6	121 ± 4.6	128 ± 6.2
3.3	94 ± 7.2		
10.0	94 ± 2.0	124 ± 3.5	120 ± 2.9
33.0	86 ± 6.5	123 ± 6.6	122 ± 6.0
100.0	97 ± 2.6	116 ± 7.5	129 ± 8.6
333.0	102 ± 6.4 ^s	132 ± 7.2	127 ± 4.4
1000.0		99 ± 5.8 ^s	112 ± 3.4 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ⁴			765 ± 27.8
Positive Control ⁷		1494 ± 15.6	
Positive Control ⁸	851 ± 67.1		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	13 ± 3.2	29 ± 0.7	27 ± 1.2
3.3	20 ± 3.8		
10.0	11 ± 1.2	26 ± 3.5	29 ± 2.8
33.0	14 ± 3.0	24 ± 2.8	26 ± 0.9
100.0	20 ± 2.3	31 ± 0.9	21 ± 2.0
333.0	13 ± 0.7 ^s	26 ± 2.3	20 ± 3.5
1000.0		24 ± 5.5 ^s	29 ± 1.5 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ⁹			251 ± 10.7
Positive Control ²		313 ± 29.4	
Positive Control ¹⁰	149 ± 8.8		

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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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 1.5 ug/Plate 2-Aminoanthracene

7: 2.0 ug/Plate 2-Aminoanthracene

8: 3.5 ug/Plate 9-Aminoacridine

9: 0.2 ug/Plate 2-Aminoanthracene

10: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****