

Experiment Number: 922816

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Amyl nitrite

CAS Number: 463-04-7

Date Report Requested: 09/17/2018

Time Report Requested: 06:47:31

NTP Study Number:

922816

Study Result:

Positive

Experiment Number: 922816
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Amyl nitrite
CAS Number: 463-04-7

Date Report Requested: 09/17/2018
Time Report Requested: 06:47:31

Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	132 ± 6.2	114 ± 5.9	116 ± 13.6
10.0	114 ± 1.2		
33.0	117 ± 10.8	112 ± 8.7	115 ± 12.2
100.0	115 ± 4.0	115 ± 7.2	102 ± 6.6
333.0	104 ± 3.0	130 ± 7.5	129 ± 5.2
666.0	115 ± 5.8		
1000.0		131 ± 18.4	161 ± 2.8
3333.0		11 ± 5.2 ^s	20 ± 20.0 ^s
Trial Summary	Negative	Negative	Equivocal
Positive Control ²			501 ± 75.1
Positive Control ³		689 ± 15.1	
Positive Control ⁴	507 ± 1.3		

Experiment Number: 922816

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Amyl nitrite

CAS Number: 463-04-7

Date Report Requested: 09/17/2018

Time Report Requested: 06:47:31

Strain: TA1535

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	14 ± 0.9	13 ± 1.2	10 ± 1.0	13 ± 1.5	10 ± 1.0
10.0	7 ± 0.7				
33.0	10 ± 2.0	17 ± 3.8	9 ± 1.5	6 ± 0.3	21 ± 3.2
100.0	11 ± 1.5	18 ± 2.9	11 ± 3.8	12 ± 2.4	16 ± 3.5
333.0	12 ± 0.0	19 ± 1.8	22 ± 1.9	12 ± 2.8	22 ± 2.5
666.0	17 ± 2.0				
1000.0		32 ± 4.0	25 ± 0.6	25 ± 2.3	38 ± 3.2
1666.0		37 ± 3.1		32 ± 2.4	38 ± 1.2
3333.0			11 ± 5.6 ^s		
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ³					
Positive Control ⁴	347 ± 43.9				
Positive Control ⁵		149 ± 6.6	126 ± 6.9	89 ± 4.0	81 ± 5.0

Experiment Number: 922816
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Amyl nitrite
CAS Number: 463-04-7

Date Report Requested: 09/17/2018
Time Report Requested: 06:47:31

Strain: TA1535

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	11 ± 2.1	10 ± 1.2	8 ± 1.0	13 ± 1.5
10.0				
33.0	17 ± 3.2	14 ± 2.3	12 ± 3.0	12 ± 1.0
100.0	16 ± 2.5	17 ± 0.6	10 ± 2.0	15 ± 3.3
333.0	22 ± 4.9	20 ± 3.5	11 ± 1.3	22 ± 1.7
666.0				
1000.0	35 ± 3.1	37 ± 0.5	29 ± 2.0	39 ± 5.0
1666.0	39 ± 2.5		39 ± 4.0	60 ± 2.1
3333.0		41 ± 5.7		
Trial Summary	Positive	Positive	Positive	Positive
Positive Control ³	1597 ± 143.5	259 ± 7.8	134 ± 10.1	
Positive Control ⁴				
Positive Control ⁵				362 ± 27.0

Experiment Number: 922816
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Amyl nitrite
CAS Number: 463-04-7

Date Report Requested: 09/17/2018
Time Report Requested: 06:47:31

Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	179 ± 6.0	160 ± 10.7	145 ± 5.2
10.0	153 ± 3.0		
33.0	149 ± 5.9	141 ± 21.7	175 ± 14.0
100.0	154 ± 12.2	127 ± 10.8	161 ± 10.8
333.0	171 ± 2.3	146 ± 17.5	137 ± 7.2
666.0	163 ± 11.9		
1000.0		132 ± 17.2	168 ± 16.1
3333.0		0 ± 0.0 ^s	78 ± 7.5 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			546 ± 10.0
Positive Control ³		436 ± 6.4	
Positive Control ⁶	641 ± 22.4		

Experiment Number: 922816
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Amyl nitrite
CAS Number: 463-04-7

Date Report Requested: 09/17/2018
Time Report Requested: 06:47:31

Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	19 ± 0.9	28 ± 4.4	35 ± 3.2
10.0	21 ± 3.3		
33.0	17 ± 3.5	22 ± 2.7	32 ± 3.8
100.0	19 ± 0.7	32 ± 5.6	36 ± 4.3
333.0	17 ± 1.8	33 ± 3.4	35 ± 4.6
666.0	17 ± 1.9		
1000.0		28 ± 4.5	39 ± 6.8
3333.0		6 ± 3.5 ^s	8 ± 8.0 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			519 ± 39.4
Positive Control ³		435 ± 46.2	
Positive Control ⁷	1124 ± 36.5		

Experiment Number: 922816

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

G06: Ames Summary Data

Test Compound: **Amyl nitrite**

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

Date Report Requested: **09/17/2018**

Time Report Requested: **06:47:31**

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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 25.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****