

Experiment Number: 626123

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Nitrofurantoin

CAS Number: 67-20-9

Date Report Requested: 09/10/2018

Time Report Requested: 16:51:29

NTP Study Number:

626123

Study Result:

Positive

Experiment Number: 626123

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Nitrofurantoin

CAS Number: 67-20-9

Date Report Requested: 09/10/2018

Time Report Requested: 16:51:29

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	121 ± 6.1	128 ± 1.5	101 ± 8.2	115 ± 7.2	116 ± 9.0
0.01		117 ± 3.1			
0.03	193 ± 17.9	146 ± 5.2		114 ± 4.6	
0.1	222 ± 18.4	149 ± 4.7		126 ± 8.2	
0.3	710 ± 51.7	350 ± 14.2	264 ± 4.1	159 ± 3.5	232 ± 50.5
1.0	1062 ± 66.9	466 ± 12.7	431 ± 42.7	173 ± 6.1	543 ± 10.7
3.0	393 ± 37.5 ^s		718 ± 32.8	451 ± 13.5	641 ± 42.7
10.0			810 ± 13.8		491 ± 7.4
33.0			318 ± 55.7 ^s		0 ± 0.0 ^s
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			372 ± 34.0	606 ± 14.9	1419 ± 37.9
Positive Control ³	481 ± 24.7	531 ± 0.6			

Experiment Number: 626123
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Nitrofurantoin
CAS Number: 67-20-9

Date Report Requested: 09/10/2018
Time Report Requested: 16:51:29

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	110 ± 0.7
0.01	
0.03	143 ± 7.1
0.1	138 ± 6.8
0.3	226 ± 3.5
1.0	271 ± 17.1
3.0	589 ± 31.3
10.0	
33.0	
Trial Summary	Positive
Positive Control ²	1828 ± 104.6
Positive Control ³	

Experiment Number: 626123

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Nitrofurantoin

CAS Number: 67-20-9

Date Report Requested: 09/10/2018

Time Report Requested: 16:51:29

Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	28 ± 1.7	6 ± 0.9	10 ± 3.1
0.03	19 ± 1.9		
0.1	16 ± 2.7		
0.3	11 ± 1.5	9 ± 2.6	11 ± 2.3
1.0	16 ± 0.7	12 ± 1.2	10 ± 1.8
3.0	6 ± 1.2 ^s	9 ± 1.7	12 ± 3.2
10.0		9 ± 1.9	12 ± 2.0
33.0		16 ± 2.1 ^s	0 ± 0.0 ^s
Trial Summary	Negative	Equivocal	Negative
Positive Control ³	427 ± 11.6		
Positive Control ⁴		132 ± 3.8	382 ± 18.9

Experiment Number: 626123

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Nitrofurantoin

CAS Number: 67-20-9

Date Report Requested: 09/10/2018

Time Report Requested: 16:51:29

Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	5 ± 1.7	7 ± 0.9	5 ± 1.2	5 ± 1.2	5 ± 1.2
0.03	6 ± 0.9				
0.1	5 ± 1.0				
0.3	5 ± 0.7	9 ± 2.0		12 ± 1.9	
1.0	7 ± 1.3	7 ± 0.7	8 ± 2.6	11 ± 2.5	10 ± 2.2
1.6			5 ± 1.5		8 ± 0.9
3.0	4 ± 0.3 ^s	10 ± 2.3	9 ± 1.5	16 ± 1.5	8 ± 1.0
10.0		13 ± 3.5	9 ± 2.5	21 ± 2.0	12 ± 4.3
16.0			9 ± 1.8		17 ± 3.7
33.0		8 ± 0.7 ^s		0 ± 0.0 ^s	
Trial Summary	Negative	Negative	Negative	Weakly Positive	Equivocal
Positive Control ⁴		123 ± 3.9	125 ± 0.7	519 ± 11.2	166 ± 41.3
Positive Control ⁵	222 ± 11.1				

Experiment Number: 626123

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Nitrofurantoin

CAS Number: 67-20-9

Date Report Requested: 09/10/2018

Time Report Requested: 16:51:29

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 2.1
0.03	
0.1	
0.3	
1.0	9 ± 0.6
1.6	9 ± 1.5
3.0	9 ± 2.8
10.0	7 ± 1.2
16.0	4 ± 1.7
33.0	
Trial Summary	Negative
Positive Control ⁴	408 ± 8.6
Positive Control ⁵	

Experiment Number: 626123

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Nitrofurantoin

CAS Number: 67-20-9

Date Report Requested: 09/10/2018

Time Report Requested: 16:51:29

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	15 ± 1.2	17 ± 0.6	21 ± 1.5	25 ± 3.5	25 ± 3.2
0.03	16 ± 1.2				
0.1	16 ± 1.9	15 ± 1.8	18 ± 2.0		
0.16		19 ± 1.0	15 ± 1.3		
0.3	42 ± 1.0	21 ± 1.5	27 ± 2.2	31 ± 3.0	
1.0	58 ± 1.7	19 ± 3.2	68 ± 6.2	30 ± 1.2	33 ± 3.9
1.6		15 ± 2.2	75 ± 0.9		27 ± 1.5
3.0	15 ± 1.0 ^s			43 ± 2.9	44 ± 2.6
6.0					
10.0				53 ± 2.3	33 ± 5.5
16.0					42 ± 1.5
33.0				32 ± 5.4 ^s	
Trial Summary	Positive	Negative	Positive	Weakly Positive	Equivocal
Positive Control ²				418 ± 14.2	378 ± 23.2
Positive Control ⁶	620 ± 54.5	864 ± 41.2	331 ± 7.4		

Experiment Number: 626123

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Nitrofurantoin

CAS Number: 67-20-9

Date Report Requested: 09/10/2018

Time Report Requested: 16:51:29

Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	32 ± 3.5	33 ± 4.7	24 ± 3.8	27 ± 1.2
0.03				
0.1				
0.16				
0.3		37 ± 1.8	37 ± 1.3	32 ± 3.8
1.0	35 ± 1.5	39 ± 1.3	30 ± 2.5	49 ± 3.8
1.6	45 ± 3.7		33 ± 3.5	55 ± 4.8
3.0	73 ± 9.8	53 ± 6.4	53 ± 5.3	69 ± 9.7
6.0			41 ± 1.7	68 ± 0.9
10.0	65 ± 4.4	37 ± 0.6		
16.0	40 ± 1.5			
33.0		0 ± 0.0 ^s		
Trial Summary	Positive	Equivocal	Equivocal	Positive
Positive Control ²	1666 ± 27.7	1278 ± 62.6	1270 ± 51.2	1514 ± 16.2
Positive Control ⁶				

Experiment Number: 626123

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

G06: Ames Summary Data

Test Compound: **Nitrofurantoin**

CAS Number: **67-20-9**

Date Report Requested: **09/10/2018**

Time Report Requested: **16:51:29**

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 9-Aminoacridine

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

s: Slight Toxicity

**** END OF REPORT ****