Experiment Number: **962072**

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

G06: Ames Summary Data

Test Compound: **Nitrofurantoin**

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

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

Time Report Requested: **21:39:11**

NTP Study Number: 962072

Study Result: Positive

Experiment Number: **962072**

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

G06: Ames Summary Data

Test Compound: **Nitrofurantoin**

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

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

Time Report Requested: **21:39:11**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control[1]	127 ± 2.4	132 ± 7.7	146 ± 1.8	135 ± 5.2	117 ± 6.4
0.01		145 ± 11.0			
0.03	201 ± 3.5				
0.1	358 ± 14.8	280 ± 6.6	212 ± 10.4	234 ± 16.2	180 ± 9.9
0.3	1035 ± 15.1	666 ± 16.8	442 ± 2.9	358 ± 21.9	308 ± 4.6
0.6		915 ± 71.1[s]			
1.0	391 ± 49.3[s]	770 ± 39.0[s]	840 ± 53.3	722 ± 8.9[s]	620 ± 13.5[s]
1.5				761 ± 60.3[s]	704 ± 16.9[s]
2.0	327 ± 75.0[s]		512 ± 28.3[s]	802 ± 89.5[s]	776 ± 37.3[s]
3.3			273 ± 11.7[s]		
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control[2]					
Positive Control[3]			1162 ± 31.1	260 ± 10.8	748 ± 30.1
Positive Control[4]	2300 ± 24.3	978 ± 46.9			

Experiment Number: **962072**

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

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

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

Time Report Requested: **21:39:11**

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control[1]	139 ± 0.9	146 ± 2.7	131 ± 5.4
0.01			
0.03			
0.1	299 ± 3.2	265 ± 4.8	247 ± 16.3
0.3	836 ± 69.2	539 ± 3.9	587 ± 30.3
0.6			
1.0	610 ± 67.6	640 ± 72.0[s]	855 ± 13.7[s]
1.5		487 ± 75.6[s]	337 ± 42.3[s]
2.0	195 ± 8.6[s]	386 ± 98.7[s]	248 ± 38.4[s]
3.3	290 ± 52.8[s]		
Trial Summary	Positive	Positive	Positive
Positive Control[2]	2210 ± 33.2	176 ± 9.1	1011 ± 53.4
Positive Control[3]			
Positive Control[4]			

Experiment Number: **962072**

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

G06: Ames Summary Data

Test Compound: **Nitrofurantoin**

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

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

Time Report Requested: **21:39:11**

Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	36 ± 4.2	11 ± 1.7	10 ± 2.5
0.03	32 ± 3.2		
0.1	33 ± 2.0	9 ± 2.5	9 ± 1.2
0.3	22 ± 3.8	14 ± 4.1	9 ± 2.3
1.0	16 ± 3.8[s]	11 ± 0.0	14 ± 2.3
2.0	17 ± 2.3[s]	13 ± 2.6[s]	9 ± 1.5[s]
3.3		12 ± 2.6[s]	7 ± 2.5[s]
Trial Summary	Negative	Negative	Negative
Positive Control[2]			152 ± 1.0
Positive Control[3]		56 ± 5.2	
Positive Control[4]	1609 ± 26.0		

Experiment Number: **962072**

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

G06: Ames Summary Data

Test Compound: **Nitrofurantoin**

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

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

Time Report Requested: **21:39:11**

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control[1]	6 ± 2.5	6 ± 0.6	4 ± 0.9	6 ± 0.7	7 ± 1.8
0.01		7 ± 1.7	5 ± 1.2		
0.03	8 ± 0.9				
0.1	7 ± 1.8	7 ± 0.3	4 ± 1.2	9 ± 1.5	9 ± 0.7
0.3	7 ± 0.9	7 ± 1.5	8 ± 0.6	8 ± 2.0	7 ± 0.9
0.6		6 ± 0.9	6 ± 1.2		
1.0	12 ± 1.2[s]	10 ± 1.2[s]	10 ± 1.8	8 ± 1.2	8 ± 0.9
1.5					10 ± 1.2[s]
2.0	13 ± 2.6[s]			10 ± 2.0	8 ± 1.2[s]
3.3				14 ± 4.3[s]	
Trial Summary	Equivocal	Negative	Equivocal	Equivocal	Negative
Positive Control[2]					
Positive Control[3]				112 ± 19.8	39 ± 2.5
Positive Control[5]	505 ± 33.5	265 ± 11.7	292 ± 21.0		

Experiment Number: **962072**

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

G06: Ames Summary Data

Test Compound: **Nitrofurantoin**

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

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

Time Report Requested: **21:39:11**

Strain: TA1537

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control[1]	6 ± 1.5	7 ± 0.3	9 ± 2.8	8 ± 1.2
0.01				
0.03				
0.1	8 ± 1.5	6 ± 0.9	10 ± 3.3	5 ± 1.5
0.3	5 ± 0.7	10 ± 1.8	9 ± 2.4	8 ± 0.3
0.6				
1.0	9 ± 1.8	10 ± 1.2	15 ± 2.2	5 ± 0.9
1.5	8 ± 2.3[s]		13 ± 1.5[s]	8 ± 1.3[s]
2.0	11 ± 0.3[s]	21 ± 1.0	15 ± 1.5[s]	11 ± 2.3[s]
3.3		16 ± 2.4[s]		
Trial Summary	Negative	Equivocal	Negative	Negative
Positive Control[2]		254 ± 6.3	33 ± 1.2	101 ± 5.8
Positive Control[3]	39 ± 3.5			
Positive Control[5]				

Experiment Number: **962072**

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

G06: Ames Summary Data

Test Compound: **Nitrofurantoin**

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

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

Time Report Requested: **21:39:11**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control[1]	18 ± 1.7	11 ± 1.3	30 ± 3.0	24 ± 0.7	25 ± 3.5
0.01		16 ± 3.2			
0.03	16 ± 4.1				
0.1	22 ± 2.0	18 ± 2.3	30 ± 2.0	27 ± 2.9	23 ± 1.7
0.3	36 ± 5.4	33 ± 1.0	32 ± 3.2	28 ± 3.2	31 ± 2.2
0.6		47 ± 1.5			
1.0	66 ± 3.3[s]	56 ± 2.0[s]	59 ± 4.8	39 ± 3.2	40 ± 2.8
1.5				50 ± 4.4	46 ± 3.0
2.0	35 ± 7.9[s]		69 ± 6.1	53 ± 5.9[s]	52 ± 3.8[s]
3.3			45 ± 3.5[s]		
Trial Summary	Positive	Positive	Weakly Positive	Weakly Positive	Weakly Positive
Positive Control[2]					
Positive Control[3]			923 ± 39.6	392 ± 10.1	519 ± 73.3
Positive Control[6]	1469 ± 18.3	1250 ± 13.7			

Experiment Number: **962072**

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

G06: Ames Summary Data

Test Compound: **Nitrofurantoin**

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

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

Time Report Requested: **21:39:11**

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control[1]	23 ± 2.0	25 ± 4.4	26 ± 1.3
0.01			
0.03			
0.1	38 ± 3.5	29 ± 1.2	27 ± 4.6
0.3	45 ± 6.3	32 ± 1.3	30 ± 2.6
0.6			
1.0	73 ± 2.9	55 ± 4.4	57 ± 11.8
1.5		56 ± 1.7[s]	62 ± 1.0[s]
2.0	54 ± 9.1[s]	55 ± 4.9[s]	68 ± 3.5[s]
3.3	20 ± 3.2[s]		
Trial Summary	Positive	Weakly Positive	Weakly Positive
Positive Control[2]	1960 ± 41.6	201 ± 23.7	1004 ± 82.8
Positive Control[3]			
Positive Control[6]			

LEGEND

Values given as Mean or Mean ± 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: 0.75 ug/Plate 2-Aminoanthracene
3: 1.5 ug/Plate 2-Aminoanthracene
4: 2.5 ug/Plate Sodium Azide
5: 80.0 ug/Plate 9-Aminoacridine
6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine
s: Slight Toxicity

** END OF REPORT **