Experiment Number: **421216**

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

G06: Ames Summary Data

Test Compound: **4-Nitroanthranilic acid**

CAS Number: **619-17-0**

Date Report Requested: **09/15/2018**

Time Report Requested: **05:21:06**

NTP Study Number: 421216

Study Result: Positive

Experiment Number: **421216**

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

G06: Ames Summary Data

Test Compound: **4-Nitroanthranilic acid**

CAS Number: **619-17-0**

Date Report Requested: **09/15/2018**

Time Report Requested: **05:21:06**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	146 ± 4.9	170 ± 3.2	132 ± 2.7	160 ± 1.5	140 ± 5.0
10.0		175 ± 8.0		170 ± 10.9	
33.0	176 ± 6.7		183 ± 11.8		213 ± 7.2
100.0	283 ± 9.5	304 ± 4.1	277 ± 29.5	313 ± 8.7	360 ± 23.2
333.0	793 ± 40.2	804 ± 14.8	855 ± 31.5	936 ± 25.4	957 ± 21.3
1000.0	1570 ± 40.1	1826 ± 67.7	1544 ± 67.1	1724 ± 44.7	2312 ± 51.5
2200.0	843 ± 125.3[s]	1329 ± 41.4[s]	733 ± 69.7[s]	692 ± 28.4[s]	920 ± 32.9[s]
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control[2]					1170 ± 66.8
Positive Control[3]			1113 ± 33.2	849 ± 23.4	
Positive Control[4]	1226 ± 37.5	980 ± 42.4			

Experiment Number: **421216**

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

G06: Ames Summary Data

Test Compound: **4-Nitroanthranilic acid**

CAS Number: **619-17-0**

Date Report Requested: **09/15/2018**

Time Report Requested: **05:21:06**

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	140 ± 5.0
10.0	131 ± 12.8
33.0	
100.0	322 ± 4.5
333.0	795 ± 19.2
1000.0	1948 ± 69.3
2200.0	1479 ± 115.4[s]
Trial Summary	Positive
Positive Control[2]	597 ± 9.6
Positive Control[3]	
Positive Control[4]	

Experiment Number: **421216**

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

G06: Ames Summary Data

Test Compound: **4-Nitroanthranilic acid**

CAS Number: **619-17-0**

Date Report Requested: **09/15/2018**

Time Report Requested: **05:21:06**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	26 ± 2.0	30 ± 0.3	18 ± 2.9	19 ± 1.5	11 ± 0.9
10.0		28 ± 2.6		36 ± 7.7	
33.0	35 ± 3.5		25 ± 1.5		25 ± 1.5
100.0	46 ± 1.5	40 ± 2.0	44 ± 5.2	50 ± 7.0	60 ± 9.0
333.0	93 ± 3.5	93 ± 6.7	134 ± 0.6	101 ± 4.3	130 ± 6.4
1000.0	202 ± 9.9	187 ± 10.7	160 ± 21.1	152 ± 4.4	216 ± 4.0
2200.0	9 ± 4.0[s]	25 ± 9.3[s]	26 ± 0.6[s]	1 ± 0.7[s]	20 ± 2.0[s]
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control[2]					78 ± 1.9
Positive Control[3]			74 ± 6.9	87 ± 4.6	
Positive Control[4]	894 ± 8.2	779 ± 19.9			

Experiment Number: **421216**

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

G06: Ames Summary Data

Test Compound: **4-Nitroanthranilic acid**

CAS Number: **619-17-0**

Date Report Requested: **09/15/2018**

Time Report Requested: **05:21:06**

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	30 ± 3.3
10.0	31 ± 4.0
33.0	
100.0	51 ± 6.7
333.0	124 ± 7.7
1000.0	217 ± 16.0
2200.0	12 ± 3.2[s]
Trial Summary	Positive
Positive Control[2]	74 ± 3.5
Positive Control[3]	
Positive Control[4]	

Experiment Number: **421216**

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

G06: Ames Summary Data

Test Compound: **4-Nitroanthranilic acid**

CAS Number: **619-17-0**

Date Report Requested: **09/15/2018**

Time Report Requested: **05:21:06**

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control[1]	21 ± 1.2	6 ± 2.4	6 ± 0.9	22 ± 2.6	8 ± 2.4
10.0			8 ± 2.0		
33.0	17 ± 2.9	9 ± 2.0		22 ± 1.2	6 ± 0.7
100.0	23 ± 1.5	10 ± 1.2		19 ± 0.7	12 ± 1.0
333.0	30 ± 2.3	14 ± 3.3	15 ± 1.2	24 ± 4.0	11 ± 1.3
1000.0	32 ± 2.0	22 ± 3.2	17 ± 0.9	24 ± 2.6	12 ± 2.3
2200.0	31 ± 0.6	24 ± 0.7	30 ± 3.5	23 ± 1.2	9 ± 2.4
3300.0			18 ± 1.0		
Trial Summary	Negative	Positive	Positive	Negative	Negative
Positive Control[2]					
Positive Control[3]				116 ± 10.1	82 ± 5.0
Positive Control[5]	239 ± 21.9	195 ± 12.8	197 ± 14.7		

Experiment Number: **421216**

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

G06: Ames Summary Data

Test Compound: **4-Nitroanthranilic acid**

CAS Number: **619-17-0**

Date Report Requested: **09/15/2018**

Time Report Requested: **05:21:06**

Strain: TA1537

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control[1]	7 ± 0.7	24 ± 4.6	9 ± 1.7	6 ± 1.5
10.0	6 ± 1.0			9 ± 4.0
33.0		23 ± 2.6	12 ± 0.3	
100.0		23 ± 3.7	11 ± 1.0	
333.0	8 ± 0.9	24 ± 3.3	10 ± 2.0	9 ± 1.5
1000.0	10 ± 1.2	24 ± 0.7	13 ± 0.7	10 ± 0.0
2200.0	10 ± 0.3	29 ± 2.8	18 ± 2.1	10 ± 4.0
3300.0	5 ± 1.3			8 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative
Positive Control[2]		132 ± 2.1	88 ± 7.9	49 ± 5.5
Positive Control[3]	75 ± 3.2			
Positive Control[5]				

Experiment Number: **421216**

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

G06: Ames Summary Data

Test Compound: **4-Nitroanthranilic acid**

CAS Number: **619-17-0**

Date Report Requested: **09/15/2018**

Time Report Requested: **05:21:06**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	16 ± 0.6	21 ± 1.8	32 ± 2.7	31 ± 6.7	27 ± 3.5
10.0		18 ± 2.2		28 ± 2.6	
33.0	23 ± 2.5		31 ± 2.6		28 ± 5.3
100.0	25 ± 4.3		29 ± 2.9		44 ± 2.6
333.0	44 ± 4.0	50 ± 6.8	41 ± 2.5	36 ± 2.3	47 ± 2.8
1000.0	70 ± 2.8	76 ± 3.0	53 ± 4.3	39 ± 2.0	62 ± 6.7
2200.0	78 ± 2.3	85 ± 3.5	53 ± 5.3	50 ± 4.6	79 ± 3.7
3300.0		96 ± 9.8		47 ± 3.5	
Trial Summary	Positive	Positive	Equivocal	Equivocal	Positive
Positive Control[2]					1130 ± 38.1
Positive Control[3]			1026 ± 11.0	561 ± 39.2	
Positive Control[6]	1200 ± 24.3	1284 ± 43.5			

Experiment Number: **421216**

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

G06: Ames Summary Data

Test Compound: **4-Nitroanthranilic acid**

CAS Number: **619-17-0**

Date Report Requested: **09/15/2018**

Time Report Requested: **05:21:06**

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	24 ± 3.7
10.0	22 ± 2.1
33.0	
100.0	
333.0	37 ± 1.7
1000.0	59 ± 5.6
2200.0	65 ± 1.7
3300.0	58 ± 0.9
Trial Summary	Weakly Positive
Positive Control[2]	485 ± 11.7
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 **