Experiment Number: **684386**

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

G06: Ames Summary Data

Test Compound: **(o-Nitrophenyl)acetonitrile**

CAS Number: **610-66-2**

Date Report Requested: **09/13/2018**

Time Report Requested: **01:08:01**

NTP Study Number: 684386

Study Result: Positive

Experiment Number: **684386**

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

G06: Ames Summary Data

Test Compound: **(o-Nitrophenyl)acetonitrile**

CAS Number: **610-66-2**

Date Report Requested: **09/13/2018**

Time Report Requested: **01:08:01**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	138 ± 7.0	114 ± 3.5	140 ± 10.7	101 ± 6.9	118 ± 6.4
33.0	165 ± 11.1	131 ± 9.6	137 ± 8.6	96 ± 5.9	126 ± 2.9
100.0	247 ± 10.3	220 ± 10.0	141 ± 5.2	114 ± 4.1	128 ± 4.6
333.0	433 ± 21.3	460 ± 8.9	184 ± 2.9	199 ± 7.5	199 ± 12.3
667.0					
1000.0	922 ± 26.1	1023 ± 23.0	304 ± 15.8	290 ± 12.4	174 ± 21.4
2000.0	450 ± 16.8	725 ± 46.0	398 ± 30.7	413 ± 20.6	0 ± 0.0
Trial Summary	Positive	Positive	Positive	Positive	Equivocal
Positive Control[2]					773 ± 16.8
Positive Control[3]			1098 ± 29.2	1953 ± 72.6	
Positive Control[4]	990 ± 31.8	1354 ± 16.6			

Experiment Number: **684386**

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

G06: Ames Summary Data

Test Compound: **(o-Nitrophenyl)acetonitrile**

CAS Number: **610-66-2**

Date Report Requested: **09/13/2018**

Time Report Requested: **01:08:01**

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	92 ± 2.0
33.0	109 ± 4.1
100.0	114 ± 6.4
333.0	177 ± 6.6
667.0	174 ± 4.5
1000.0	193 ± 2.3
2000.0	
Trial Summary	Weakly Positive
Positive Control[2]	1250 ± 17.3
Positive Control[3]	
Positive Control[4]	

Experiment Number: **684386**

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

G06: Ames Summary Data

Test Compound: **(o-Nitrophenyl)acetonitrile**

CAS Number: **610-66-2**

Date Report Requested: **09/13/2018**

Time Report Requested: **01:08:01**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	19 ± 1.5	30 ± 2.3	12 ± 2.6	14 ± 3.5	11 ± 2.4
33.0	22 ± 3.5	28 ± 2.3	11 ± 3.2	14 ± 3.5	17 ± 0.3
100.0	25 ± 0.9	45 ± 5.8	12 ± 3.2	23 ± 2.3	21 ± 3.6
333.0	35 ± 1.5[s]	57 ± 2.6	18 ± 0.6	30 ± 4.9	19 ± 3.5
667.0					
1000.0	41 ± 2.8[s]	55 ± 4.4	27 ± 1.5[s]	36 ± 2.4	25 ± 4.4[s]
2000.0	12 ± 1.5[s]	17 ± 1.8	26 ± 5.0[s]	34 ± 6.0	12 ± 2.6[s]
Trial Summary	Weakly Positive	Weakly Positive	Weakly Positive	Positive	Weakly Positive
Positive Control[2]					66 ± 4.9
Positive Control[3]			96 ± 7.8	143 ± 4.6	
Positive Control[4]	877 ± 13.0	999 ± 10.4			

Experiment Number: **684386**

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

G06: Ames Summary Data

Test Compound: **(o-Nitrophenyl)acetonitrile**

CAS Number: **610-66-2**

Date Report Requested: **09/13/2018**

Time Report Requested: **01:08:01**

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	11 ± 1.7
33.0	14 ± 2.0
100.0	20 ± 4.2
333.0	23 ± 2.3
667.0	30 ± 0.9
1000.0	28 ± 2.3
2000.0	
Trial Summary	Positive
Positive Control[2]	106 ± 8.0
Positive Control[3]	
Positive Control[4]	

Experiment Number: **684386**

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

G06: Ames Summary Data

Test Compound: **(o-Nitrophenyl)acetonitrile**

CAS Number: **610-66-2**

Date Report Requested: **09/13/2018**

Time Report Requested: **01:08:01**

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	95 ± 4.9	84 ± 3.7	184 ± 4.3	125 ± 7.4	116 ± 4.8
33.0	125 ± 5.2	102 ± 4.7	167 ± 3.7	113 ± 8.1	115 ± 6.2
100.0	151 ± 4.1	163 ± 1.9	196 ± 10.9	130 ± 1.7	148 ± 1.2
333.0	397 ± 9.4	292 ± 16.0	210 ± 4.3	153 ± 11.7	198 ± 3.5
667.0					
1000.0	671 ± 40.1	42 ± 7.2	208 ± 10.8	89 ± 25.1	101 ± 2.3
2000.0	8 ± 6.0	1 ± 0.7	39 ± 9.5	3 ± 0.3	2 ± 1.2
Trial Summary	Positive	Positive	Negative	Negative	Equivocal
Positive Control[2]					595 ± 5.7
Positive Control[3]			1067 ± 18.3	1065 ± 31.9	
Positive Control[5]	1806 ± 67.0	1484 ± 13.7			

Experiment Number: **684386**

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

G06: Ames Summary Data

Test Compound: **(o-Nitrophenyl)acetonitrile**

CAS Number: **610-66-2**

Date Report Requested: **09/13/2018**

Time Report Requested: **01:08:01**

Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	122 ± 1.9
33.0	121 ± 9.6
100.0	145 ± 8.5
333.0	100 ± 3.9
667.0	23 ± 4.0
1000.0	16 ± 1.2
2000.0	
Trial Summary	Negative
Positive Control[2]	796 ± 17.6
Positive Control[3]	
Positive Control[5]	

Experiment Number: **684386**

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

G06: Ames Summary Data

Test Compound: **(o-Nitrophenyl)acetonitrile**

CAS Number: **610-66-2**

Date Report Requested: **09/13/2018**

Time Report Requested: **01:08:01**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	21 ± 3.7	13 ± 0.6	27 ± 2.7	34 ± 0.6	23 ± 2.9
33.0	16 ± 1.9	16 ± 1.5	26 ± 1.0	32 ± 3.5	27 ± 3.5
100.0	25 ± 2.8	19 ± 3.8	27 ± 2.6	38 ± 5.8	22 ± 2.6
333.0	63 ± 4.6	36 ± 4.3	25 ± 5.8	28 ± 2.5	19 ± 2.3
667.0					
1000.0	113 ± 2.0	75 ± 4.8	24 ± 2.5[s]	30 ± 0.3	13 ± 1.2
2000.0	176 ± 3.2	143 ± 7.2	25 ± 2.0[s]	28 ± 2.9	0 ± 0.0
Trial Summary	Positive	Positive	Negative	Negative	Negative
Positive Control[2]					777 ± 18.8
Positive Control[3]			976 ± 10.5	1779 ± 17.7	
Positive Control[6]	1407 ± 38.0	1449 ± 17.6			

Experiment Number: **684386**

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

G06: Ames Summary Data

Test Compound: **(o-Nitrophenyl)acetonitrile**

CAS Number: **610-66-2**

Date Report Requested: **09/13/2018**

Time Report Requested: **01:08:01**

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	29 ± 1.5
33.0	31 ± 0.3
100.0	35 ± 1.8
333.0	22 ± 1.7
667.0	27 ± 1.7
1000.0	21 ± 1.7
2000.0	
Trial Summary	Negative
Positive Control[2]	1248 ± 28.4
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: 4.0 ug/Plate 9-Aminoacridine
6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine
s: Slight Toxicity

** END OF REPORT **