

Experiment Number: 617578

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 4-Nitrophthalimide

CAS Number: 89-40-7

Date Report Requested: 09/15/2018

Time Report Requested: 07:36:27

NTP Study Number:

617578

Study Result:

Positive

Experiment Number: 617578

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 4-Nitrophthalimide

CAS Number: 89-40-7

Date Report Requested: 09/15/2018

Time Report Requested: 07:36:27

Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	128 ± 11.9	151 ± 7.8	117 ± 4.0	137 ± 6.8	152 ± 3.5
100.0	129 ± 14.7	172 ± 20.3	137 ± 13.0	142 ± 9.8	152 ± 6.1
333.0	129 ± 7.5	170 ± 7.8	135 ± 6.4	132 ± 7.9	138 ± 1.5
1000.0	145 ± 10.4	185 ± 7.0	159 ± 5.5	153 ± 6.9	156 ± 9.4
1666.0			187 ± 17.1		161 ± 5.8
3333.0	118 ± 13.0	219 ± 12.7	188 ± 10.2	206 ± 17.6	212 ± 12.5
6666.0	52 ± 17.9 ^s	137 ± 3.5		179 ± 5.0	
Trial Summary	Negative	Equivocal	Weakly Positive	Equivocal	Equivocal
Positive Control ²				794 ± 9.2	868 ± 65.3
Positive Control ³		486 ± 17.6	577 ± 5.8		
Positive Control ⁴	331 ± 8.4				

Experiment Number: 617578
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: 4-Nitrophthalimide
CAS Number: 89-40-7

Date Report Requested: 09/15/2018
Time Report Requested: 07:36:27

Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 1.7	12 ± 2.3	8 ± 2.7
100.0	11 ± 0.6	8 ± 1.2	9 ± 1.5
333.0	10 ± 0.3	7 ± 1.0	6 ± 2.3
1000.0	6 ± 0.9	9 ± 0.6	7 ± 1.7
3333.0	3 ± 0.7	5 ± 0.7	7 ± 1.7
6666.0	1 ± 0.7	2 ± 0.3	4 ± 0.9
Trial Summary	Negative	Negative	Negative
Positive Control ³			231 ± 13.9
Positive Control ⁴	331 ± 7.5		
Positive Control ⁵		142 ± 6.2	

Experiment Number: 617578

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 4-Nitrophthalimide

CAS Number: 89-40-7

Date Report Requested: 09/15/2018

Time Report Requested: 07:36:27

Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	9 ± 0.3	9 ± 1.7	8 ± 0.0
100.0	7 ± 1.0	9 ± 3.5	11 ± 2.8
333.0	9 ± 1.2	12 ± 1.5	8 ± 2.7
1000.0	20 ± 2.6	9 ± 0.9	16 ± 3.8
1666.0	24 ± 2.3	10 ± 0.6	13 ± 2.1
3333.0	39 ± 4.7	19 ± 1.3	18 ± 1.0
Trial Summary	Positive	Equivocal	Equivocal
Positive Control ⁵		149 ± 8.3	196 ± 21.4
Positive Control ⁶	130 ± 1.5		

Experiment Number: 617578

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 4-Nitrophthalimide

CAS Number: 89-40-7

Date Report Requested: 09/15/2018

Time Report Requested: 07:36:27

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	145 ± 11.7	146 ± 6.8	171 ± 14.6	161 ± 11.5	180 ± 7.5
100.0	176 ± 5.7	196 ± 12.7	200 ± 17.9	177 ± 7.8	171 ± 11.8
333.0	216 ± 14.0	221 ± 14.7	195 ± 4.7	173 ± 6.0	175 ± 12.6
1000.0	319 ± 1.7	297 ± 2.4	243 ± 14.1	247 ± 16.9	185 ± 6.2
1666.0		371 ± 9.5		280 ± 13.2	
3333.0	392 ± 13.3	361 ± 48.1	333 ± 16.7	295 ± 1.5	358 ± 25.8
6666.0	0 ± 0.0 ^s		231 ± 79.8		360 ± 16.8
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					514 ± 13.1
Positive Control ³			383 ± 9.5	413 ± 16.6	
Positive Control ⁷	443 ± 17.8	364 ± 16.4			

Experiment Number: 617578
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: 4-Nitrophthalimide
CAS Number: 89-40-7

Date Report Requested: 09/15/2018
Time Report Requested: 07:36:27

Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	173 ± 2.4
100.0	174 ± 12.1
333.0	201 ± 7.3
1000.0	223 ± 5.3
1666.0	275 ± 12.3
3333.0	341 ± 16.2
6666.0	
Trial Summary	Positive
Positive Control ²	553 ± 13.9
Positive Control ³	
Positive Control ⁷	

Experiment Number: 617578

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 4-Nitrophthalimide

CAS Number: 89-40-7

Date Report Requested: 09/15/2018

Time Report Requested: 07:36:27

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	27 ± 1.2	18 ± 3.7	25 ± 4.0	33 ± 5.5	30 ± 3.4
100.0	24 ± 3.2	27 ± 2.1	33 ± 1.7	28 ± 4.0	30 ± 3.2
333.0	40 ± 6.9	39 ± 4.5	34 ± 2.2	29 ± 0.7	30 ± 4.6
1000.0	70 ± 5.5	57 ± 0.7	42 ± 4.0	42 ± 3.3	54 ± 1.7
1666.0		89 ± 16.3		45 ± 2.8	
3333.0	87 ± 15.9	90 ± 23.1	76 ± 6.7	70 ± 5.0	119 ± 9.5
6666.0	50 ± 16.2		81 ± 5.8		86 ± 10.1
Trial Summary	Positive	Positive	Positive	Equivocal	Positive
Positive Control ²					507 ± 12.7
Positive Control ³			182 ± 18.2	282 ± 3.8	
Positive Control ⁸	729 ± 20.0	857 ± 52.9			

Experiment Number: 617578
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: 4-Nitrophthalimide
CAS Number: 89-40-7

Date Report Requested: 09/15/2018
Time Report Requested: 07:36:27

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	33 ± 4.7
100.0	34 ± 2.5
333.0	33 ± 5.8
1000.0	55 ± 3.7
1666.0	73 ± 11.9
3333.0	108 ± 11.5
6666.0	
Trial Summary	Positive
Positive Control ²	522 ± 13.8
Positive Control ³	
Positive Control ⁸	

Experiment Number: 617578

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 4-Nitrophthalimide

CAS Number: 89-40-7

Date Report Requested: 09/15/2018

Time Report Requested: 07:36:27

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: 50.0 ug/Plate 9-Aminoacridine

7: 25.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****