

Experiment Number: 768372

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: n-Pentanal

CAS Number: 110-62-3

Date Report Requested: 09/17/2018

Time Report Requested: 20:29:34

NTP Study Number:

768372

Study Result:

Negative

Experiment Number: 768372

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: n-Pentanal

CAS Number: 110-62-3

Date Report Requested: 09/17/2018

Time Report Requested: 20:29:34

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	105 ± 6.8	96 ± 3.1	111 ± 7.1	130 ± 6.6	99 ± 8.1
10.0	111 ± 8.2	110 ± 3.9			
33.0	119 ± 1.5	104 ± 1.7	101 ± 4.1	122 ± 7.0	106 ± 1.9
100.0	113 ± 2.4	104 ± 2.8	109 ± 6.4	114 ± 2.7	116 ± 7.9
333.0	108 ± 7.9 ^s	84 ± 4.3	102 ± 6.7	123 ± 6.7	98 ± 5.0
1000.0	22 ± 9.7 ^s	44 ± 7.8 ^s	96 ± 6.2	121 ± 9.6	96 ± 10.0 ^s
2000.0			0 ± 0.0 ^s	75 ± 9.0 ^s	49 ± 24.4 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					330 ± 14.3
Positive Control ³	322 ± 7.2	360 ± 1.9			
Positive Control ⁴			1345 ± 49.9		
Positive Control ⁵					
Positive Control ⁶				1360 ± 49.1	

Experiment Number: 768372
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: n-Pentanal
CAS Number: 110-62-3

Date Report Requested: 09/17/2018
Time Report Requested: 20:29:34

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	118 ± 10.0
10.0	
33.0	116 ± 5.7
100.0	116 ± 5.8
333.0	122 ± 4.8
1000.0	114 ± 9.5
2000.0	83 ± 4.3 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	492 ± 19.8
Positive Control ⁶	

Experiment Number: 768372

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: n-Pentanal

CAS Number: 110-62-3

Date Report Requested: 09/17/2018

Time Report Requested: 20:29:34

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	16 ± 2.9	20 ± 2.3	11 ± 2.6	14 ± 1.5	12 ± 1.2
10.0	16 ± 2.0	23 ± 1.2			
33.0	25 ± 4.7	21 ± 1.7	17 ± 2.0	15 ± 0.6	9 ± 2.6
100.0	17 ± 1.9	19 ± 2.2	9 ± 1.2	16 ± 2.0	10 ± 2.4
333.0	14 ± 0.7	16 ± 1.5	10 ± 0.9	12 ± 0.7	11 ± 2.1
1000.0	8 ± 1.8 ^s	7 ± 1.9 ^s	10 ± 1.9 ^s	16 ± 0.9	12 ± 1.0 ^s
2000.0			0 ± 0.0 ^s	14 ± 1.3 ^s	3 ± 1.2 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					45 ± 1.2
Positive Control ³	135 ± 14.8	184 ± 19.0			
Positive Control ⁵					
Positive Control ⁶			231 ± 16.8	245 ± 18.8	

Experiment Number: 768372
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: n-Pentanal
CAS Number: 110-62-3

Date Report Requested: 09/17/2018
Time Report Requested: 20:29:34

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 1.2
10.0	
33.0	12 ± 3.5
100.0	13 ± 0.7
333.0	12 ± 1.7
1000.0	9 ± 3.0
2000.0	14 ± 1.9
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	143 ± 3.3
Positive Control ⁶	

Experiment Number: 768372

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: n-Pentanal

CAS Number: 110-62-3

Date Report Requested: 09/17/2018

Time Report Requested: 20:29:34

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	98 ± 3.8	132 ± 5.6	64 ± 2.7	115 ± 7.0	74 ± 9.9
10.0	85 ± 3.1	126 ± 5.7			
33.0	120 ± 1.5	129 ± 4.3	63 ± 3.3	111 ± 9.9	67 ± 3.9
100.0	101 ± 4.5	109 ± 5.2	68 ± 4.3	108 ± 8.0	71 ± 4.9
333.0	91 ± 3.2 ^s	99 ± 10.2 ^s	78 ± 2.6 ^s	122 ± 4.7	73 ± 1.7 ^s
1000.0	76 ± 6.7 ^s	73 ± 8.6 ^s	45 ± 3.2 ^s	110 ± 12.4	43 ± 4.5 ^s
2000.0			0 ± 0.0 ^s	92 ± 0.6 ^s	7 ± 6.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁷	503 ± 8.5	998 ± 17.1			
Positive Control ⁴					470 ± 6.2
Positive Control ⁶			1511 ± 42.9		
Positive Control ⁸				944 ± 17.9	
Positive Control ⁹					

Experiment Number: 768372
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: n-Pentanal
CAS Number: 110-62-3

Date Report Requested: 09/17/2018
Time Report Requested: 20:29:34

Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	108 ± 8.5
10.0	
33.0	99 ± 4.7
100.0	100 ± 4.9
333.0	108 ± 7.5
1000.0	106 ± 9.8
2000.0	128 ± 1.2 ^s
Trial Summary	Negative
Positive Control ⁷	
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁸	1107 ± 28.5
Positive Control ⁹	

Experiment Number: 768372

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: n-Pentanal

CAS Number: 110-62-3

Date Report Requested: 09/17/2018

Time Report Requested: 20:29:34

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 3.3	32 ± 2.3	40 ± 1.5	28 ± 3.2	33 ± 2.6
10.0	15 ± 1.9	40 ± 2.3	37 ± 1.7		35 ± 5.0
33.0	15 ± 3.0	36 ± 4.9	38 ± 1.2	24 ± 2.3	36 ± 2.2
100.0	9 ± 0.9	33 ± 3.9	40 ± 3.0	28 ± 3.0	35 ± 4.5
333.0	15 ± 2.9	33 ± 3.5	42 ± 1.0	23 ± 1.7	35 ± 2.6
1000.0	14 ± 0.9 ^s	20 ± 1.9	31 ± 2.5	25 ± 2.0	38 ± 4.1
2000.0				19 ± 2.1 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁰					
Positive Control ²			147 ± 15.0		209 ± 23.1
Positive Control ⁵				411 ± 12.6	
Positive Control ¹¹	299 ± 3.6	343 ± 10.8			

Experiment Number: 768372
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: n-Pentanal
CAS Number: 110-62-3

Date Report Requested: 09/17/2018
Time Report Requested: 20:29:34

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	28 ± 3.3
10.0	
33.0	25 ± 3.4
100.0	25 ± 3.3
333.0	24 ± 0.3
1000.0	26 ± 1.9
2000.0	28 ± 5.2 ^s
Trial Summary	Negative
Positive Control ¹⁰	
Positive Control ²	125 ± 5.7
Positive Control ⁵	
Positive Control ¹¹	

Experiment Number: 768372

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: n-Pentanal

CAS Number: 110-62-3

Date Report Requested: 09/17/2018

Time Report Requested: 20:29:34

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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 0.05 ug/Plate Solvent

8: 2.5 ug/Plate 2-Aminoanthracene

9: 24.0 ug/Plate 9-Aminoacridine

10: 0.2 ug/Plate 2-Aminoanthracene

11: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

** END OF REPORT **