

Experiment Number: 735213

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

G06: Ames Summary Data

Test Compound: **Nonane**

CAS Number: **111-84-2**

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

Time Report Requested: **05:09:57**

NTP Study Number:

735213

Study Result:

Negative

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Test Compound: Nonane

CAS Number: 111-84-2

Date Report Requested: 09/17/2018

Time Report Requested: 05:09:57

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	144 ± 9.4	171 ± 5.8	166 ± 9.0	171 ± 4.9	183 ± 3.3
100.0	144 ± 13.3	162 ± 3.4	154 ± 16.8	177 ± 1.5	168 ± 4.9
333.0	163 ± 7.6	158 ± 3.8	160 ± 17.7	174 ± 0.9	175 ± 10.7
1000.0	139 ± 11.5	165 ± 5.8	162 ± 10.2	164 ± 7.1	169 ± 8.2
3333.0	134 ± 10.1	153 ± 3.0	173 ± 6.8	159 ± 5.0	179 ± 4.5
10000.0	131 ± 3.4	148 ± 9.9	168 ± 15.1	171 ± 2.9	165 ± 6.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					533 ± 41.9
Positive Control ³			521 ± 49.2		
Positive Control ⁴	450 ± 6.3	463 ± 9.7			
Positive Control ⁵				536 ± 14.4	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	156 ± 4.0
100.0	157 ± 12.9
333.0	152 ± 11.5
1000.0	136 ± 3.7
3333.0	122 ± 7.2
10000.0	135 ± 3.6
Trial Summary	Negative
Positive Control ²	
Positive Control ³	736 ± 21.3
Positive Control ⁴	
Positive Control ⁵	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	18 ± 2.3	26 ± 1.0	13 ± 2.9	11 ± 1.9	10 ± 2.7
100.0	13 ± 2.0	24 ± 1.5	9 ± 1.2	10 ± 3.2	12 ± 2.0
333.0	15 ± 3.5	15 ± 2.6	13 ± 1.5	10 ± 2.7	14 ± 4.4
1000.0	17 ± 1.2	19 ± 2.1	11 ± 2.1	11 ± 2.5	11 ± 1.7
3333.0	12 ± 0.6	20 ± 1.5	11 ± 1.2	14 ± 3.6	8 ± 0.9
10000.0	11 ± 1.0	23 ± 2.4	13 ± 0.3	13 ± 0.9	10 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					313 ± 11.1
Positive Control ⁴	355 ± 1.7	327 ± 7.4			
Positive Control ⁵			221 ± 13.9		
Positive Control ⁶				110 ± 12.6	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 2.3
100.0	10 ± 1.7
333.0	11 ± 2.3
1000.0	12 ± 1.5
3333.0	6 ± 0.3
10000.0	9 ± 2.1
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	447 ± 4.9
Positive Control ⁶	

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

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	6 ± 2.2	11 ± 1.9	8 ± 1.2
100.0	6 ± 0.9	13 ± 2.5	8 ± 0.3
333.0	9 ± 0.7	8 ± 2.2	8 ± 1.2
1000.0	8 ± 0.9	10 ± 2.1	7 ± 1.0
3333.0	7 ± 2.0	8 ± 1.2	8 ± 2.0
10000.0	6 ± 0.0	8 ± 1.2	8 ± 3.2
Trial Summary	Negative	Negative	Negative
Positive Control ³			53 ± 6.7
Positive Control ⁵		45 ± 2.3	
Positive Control ⁷	554 ± 97.4		

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

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CAS Number: 111-84-2

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	152 ± 3.7	183 ± 8.8	215 ± 7.1	164 ± 0.9	193 ± 10.7
100.0	134 ± 3.4	182 ± 9.5	220 ± 0.3	104 ± 53.1	198 ± 14.4
333.0	144 ± 3.5	203 ± 1.7	212 ± 5.2	173 ± 10.7	211 ± 3.8
1000.0	156 ± 1.2	185 ± 7.5	189 ± 7.7	197 ± 4.7	183 ± 8.1
3333.0	157 ± 2.8	181 ± 8.0	205 ± 8.8	201 ± 3.2	184 ± 4.2
10000.0	149 ± 5.8	194 ± 3.7	215 ± 5.0	200 ± 0.9	192 ± 11.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					384 ± 3.8
Positive Control ³			376 ± 10.9		
Positive Control ⁵				354 ± 7.6	
Positive Control ⁷	580 ± 46.4	513 ± 91.3			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	182 ± 10.7
100.0	197 ± 8.2
333.0	216 ± 8.0
1000.0	211 ± 7.7
3333.0	206 ± 2.9
10000.0	220 ± 5.7
Trial Summary	Negative
Positive Control ²	
Positive Control ³	445 ± 35.0
Positive Control ⁵	
Positive Control ⁷	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	20 ± 3.2	23 ± 0.6	36 ± 2.0	42 ± 3.5	31 ± 3.0
100.0	17 ± 0.7	20 ± 0.6	43 ± 1.5	36 ± 5.5	36 ± 2.4
333.0	13 ± 1.8	18 ± 1.2	34 ± 5.7	34 ± 5.1	31 ± 3.0
1000.0	17 ± 5.5	18 ± 2.6	27 ± 1.9	30 ± 0.3	32 ± 5.2
3333.0	11 ± 0.7	19 ± 1.3	28 ± 3.8	32 ± 5.4	30 ± 2.3
10000.0	16 ± 2.0	20 ± 1.0	31 ± 4.2	38 ± 1.9	35 ± 8.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					402 ± 12.5
Positive Control ³			363 ± 9.0	147 ± 18.8	
Positive Control ⁸	543 ± 21.3	743 ± 17.7			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	28 ± 0.9
100.0	31 ± 5.7
333.0	25 ± 2.6
1000.0	30 ± 1.7
3333.0	26 ± 3.5
10000.0	22 ± 4.6
Trial Summary	Negative
Positive Control ²	
Positive Control ³	425 ± 22.2
Positive Control ⁸	

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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: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

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

**** END OF REPORT ****