

Experiment Number: 502864

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: n-Pentane

CAS Number: 109-66-0

Date Report Requested: 09/12/2018

Time Report Requested: 05:26:37

NTP Study Number:

502864

Study Result:

Negative

Experiment Number: 502864
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G06: Ames Summary Data
 Test Compound: n-Pentane
 CAS Number: 109-66-0

Date Report Requested: 09/12/2018
 Time Report Requested: 05:26:37

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	Without S9
Vehicle Control ¹			81 ± 5.0	117 ± 1.0	150 ± 12.3
Vehicle Control ²					
Vehicle Control ³	99 ± 4.5	95 ± 10.5			
0.01			64 ± 3.2	117 ± 5.2	
0.05			36 ± 8.7	119 ± 4.9	
0.1			61 ± 9.1	126 ± 4.0	
0.5			86 ± 7.2	125 ± 10.1	128 ± 10.7
1.0			93 ± 3.8	113 ± 12.7	149 ± 1.5
1.0		106 ± 2.2			
3.0					186 ± 14.3
3.3	105 ± 4.4	105 ± 3.9			
4.0					146 ± 4.7
5.0					118 ± 5.0
10.0	105 ± 4.1	97 ± 0.0			
33.0	93 ± 1.8	102 ± 5.8			
100.0	71 ± 8.3 ^s	79 ± 2.2 ^s			
333.0	66 ± 4.6 ^s				
1000.0					
3333.0					
6667.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					
Positive Control ⁵					
Positive Control ⁶			556 ± 133.7	446 ± 13.6	500 ± 12.4
Positive Control ⁷	371 ± 3.8	586 ± 14.7			
Positive Control ⁸					
Positive Control ⁹					
Positive Control ¹⁰					
Positive Control ¹¹					
Positive Control ¹²					
Positive Control ¹³					

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	116 ± 4.2		109 ± 9.2		87 ± 2.2
Vehicle Control ²					
Vehicle Control ³		106 ± 4.7		129 ± 3.5	
0.01					70 ± 5.5
0.05					55 ± 1.2
0.1					58 ± 3.9
0.5	118 ± 4.4		111 ± 7.3		98 ± 5.9
1.0	121 ± 5.8		129 ± 10.8		103 ± 8.4
1.0					
3.0	119 ± 6.2		124 ± 10.9		
3.3		116 ± 1.2		127 ± 5.2	
4.0	149 ± 4.4		122 ± 4.6		
5.0	120 ± 1.7		107 ± 4.3		
10.0		109 ± 13.1		125 ± 8.4	
33.0		113 ± 3.5		121 ± 2.3	
100.0		95 ± 4.8		112 ± 5.8	
333.0		63 ± 7.8 ^s		101 ± 9.8 ^s	
1000.0					
3333.0					
6667.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					
Positive Control ⁵					
Positive Control ⁶	714 ± 11.7				
Positive Control ⁷					
Positive Control ⁸			2845 ± 27.4		
Positive Control ⁹		1974 ± 24.5			
Positive Control ¹⁰					
Positive Control ¹¹					
Positive Control ¹²					457 ± 157.4
Positive Control ¹³				1982 ± 48.0	

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	168 ± 0.9	157 ± 6.1		146 ± 3.9	
Vehicle Control ²					
Vehicle Control ³			110 ± 5.5		122 ± 3.2
0.01	163 ± 0.9				
0.05	156 ± 4.2				
0.1	171 ± 6.6				
0.5	165 ± 6.4	164 ± 2.3		151 ± 9.0	
1.0	152 ± 7.5	156 ± 5.9		139 ± 9.0	
1.0					
3.0		118 ± 4.9		144 ± 8.3	
3.3			119 ± 4.0		118 ± 8.1
4.0		122 ± 8.8		144 ± 4.9	
5.0		129 ± 2.3		135 ± 7.7	
10.0			115 ± 7.1		120 ± 4.8
33.0			115 ± 2.3		106 ± 7.9
100.0			119 ± 14.7		107 ± 6.2
333.0			79 ± 1.7 ^s		89 ± 5.4 ^s
1000.0					
3333.0					
6667.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴				924 ± 41.1	
Positive Control ⁵			372 ± 12.5		
Positive Control ⁶					
Positive Control ⁷					
Positive Control ⁸					
Positive Control ⁹					
Positive Control ¹⁰					
Positive Control ¹¹					465 ± 36.5
Positive Control ¹²	3792 ± 82.9	1207 ± 40.1			
Positive Control ¹³					

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	90 ± 4.8	152 ± 7.7	176 ± 8.0
Vehicle Control ²			
Vehicle Control ³			
0.01	80 ± 2.8	176 ± 11.5	
0.05	68 ± 8.9	172 ± 3.2	
0.1	69 ± 8.1	172 ± 8.5	
0.5	93 ± 5.1	171 ± 1.8	132 ± 6.3
1.0	100 ± 4.0	163 ± 13.5	150 ± 8.1
1.0			
3.0			147 ± 5.8
3.3			
4.0			169 ± 4.0
5.0			164 ± 11.9
10.0			
33.0			
100.0			
333.0			
1000.0			
3333.0			
6667.0			
Trial Summary	Negative	Negative	Negative
Positive Control ⁴			
Positive Control ⁵			
Positive Control ⁶			
Positive Control ⁷			
Positive Control ⁸			
Positive Control ⁹			
Positive Control ¹⁰	157 ± 10.1	2032 ± 132.0	1212 ± 24.3
Positive Control ¹¹			
Positive Control ¹²			
Positive Control ¹³			

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Test Compound: n-Pentane

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹			13 ± 1.5	14 ± 1.8	
Vehicle Control ³	18 ± 0.9	24 ± 2.3			28 ± 3.4
0.5			11 ± 1.2	11 ± 2.3	
1.0			11 ± 2.3	13 ± 1.7	
1.0	20 ± 1.2	26 ± 1.9			
3.0			11 ± 0.3	12 ± 1.8	
3.3	18 ± 1.5	24 ± 2.0			22 ± 5.3
4.0			11 ± 1.2	14 ± 2.6	
5.0			14 ± 2.0	14 ± 0.9	
10.0	15 ± 1.3	33 ± 4.9			28 ± 2.9
33.0	14 ± 3.1	18 ± 2.0			22 ± 3.2
100.0	13 ± 2.3 ^s	13 ± 1.7 ^s			21 ± 5.2
333.0					8 ± 2.1 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					
Positive Control ⁵					
Positive Control ⁷		382 ± 4.7			
Positive Control ⁶			232 ± 4.8	340 ± 17.1	
Positive Control ¹⁰					
Positive Control ¹⁴	749 ± 8.7				
Positive Control ¹¹					
Positive Control ¹²					
Positive Control ¹³					293 ± 6.4

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 Test Compound: n-Pentane
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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	17 ± 6.4		15 ± 2.0		13 ± 2.9
Vehicle Control ³		23 ± 1.5		25 ± 2.2	
0.5	13 ± 1.2		13 ± 2.3		15 ± 2.2
1.0	12 ± 2.6		9 ± 2.7		11 ± 0.6
1.0					
3.0	15 ± 3.5		10 ± 1.8		14 ± 3.5
3.3		22 ± 1.0		26 ± 4.1	
4.0	12 ± 3.7		13 ± 1.2		12 ± 1.9
5.0	14 ± 2.0		11 ± 2.9		16 ± 1.7
10.0		23 ± 4.7		29 ± 1.5	
33.0		20 ± 0.3		24 ± 1.7	
100.0		18 ± 5.1		19 ± 2.7	
333.0		16 ± 1.5 ^s		9 ± 2.4 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					146 ± 10.9
Positive Control ⁵				97 ± 7.0	
Positive Control ⁷					
Positive Control ⁶					
Positive Control ¹⁰					
Positive Control ¹⁴					
Positive Control ¹¹					
Positive Control ¹²	310 ± 4.5		343 ± 20.3		
Positive Control ¹³		331 ± 10.2			

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹		11 ± 1.0
Vehicle Control ³	19 ± 2.2	
0.5		12 ± 0.9
1.0		11 ± 4.1
1.0		
3.0		8 ± 1.2
3.3	22 ± 0.7	
4.0		11 ± 1.5
5.0		11 ± 2.9
10.0	23 ± 2.9	
33.0	17 ± 2.7	
100.0	18 ± 0.3	
333.0	18 ± 1.0 ^s	
Trial Summary	Negative	Negative
Positive Control ⁴		
Positive Control ⁵		
Positive Control ⁷		
Positive Control ⁶		
Positive Control ¹⁰		287 ± 18.0
Positive Control ¹⁴		
Positive Control ¹¹	176 ± 0.9	
Positive Control ¹²		
Positive Control ¹³		

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 Test Compound: n-Pentane
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Date Report Requested: 09/12/2018
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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	Without S9
Vehicle Control ¹			102 ± 4.0	117 ± 4.4	118 ± 6.0
Vehicle Control ³	114 ± 8.4	100 ± 5.9			
0.5			104 ± 2.9	104 ± 9.6	134 ± 8.6
1.0			102 ± 5.5	116 ± 7.4	122 ± 8.4
1.0	112 ± 3.4	102 ± 3.6			
3.0			64 ± 31.9	95 ± 4.2	99 ± 4.1
3.3	104 ± 4.5	113 ± 3.6			
4.0			103 ± 5.2	108 ± 3.2	112 ± 3.2
5.0			104 ± 4.5	102 ± 3.7	107 ± 3.1
10.0	104 ± 4.5	109 ± 2.0			
33.0	106 ± 3.2	89 ± 4.9			
100.0	101 ± 5.6 ^s	81 ± 5.4 ^s			
333.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁵	849 ± 21.2	749 ± 11.3			
Positive Control ⁹					
Positive Control ⁸					
Positive Control ¹²					
Positive Control ¹³					
Positive Control ¹⁶					
Positive Control ¹⁷			354 ± 44.2	196 ± 6.4	190 ± 9.5

Experiment Number: 502864

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: n-Pentane

CAS Number: 109-66-0

Date Report Requested: 09/12/2018

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Strain: TA97

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹		128 ± 6.8		135 ± 2.3	
Vehicle Control ³	115 ± 5.2		149 ± 1.2		105 ± 6.4
0.5		137 ± 8.2		141 ± 10.3	
1.0		132 ± 2.9		130 ± 4.1	
1.0					
3.0		131 ± 7.0		127 ± 6.1	
3.3	134 ± 7.6		167 ± 3.3		105 ± 10.7
4.0		130 ± 2.8		124 ± 6.3	
5.0		114 ± 19.4		136 ± 0.9	
10.0	126 ± 3.5		176 ± 6.9		100 ± 9.3
33.0	116 ± 6.9		153 ± 7.0		100 ± 5.0
100.0	101 ± 6.3 ^s		121 ± 1.0		107 ± 12.1
333.0	92 ± 11.3 ^s		99 ± 7.6 ^s		89 ± 2.6 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁵					
Positive Control ⁹					895 ± 19.5
Positive Control ⁸					
Positive Control ¹²		3031 ± 16.8		3440 ± 145.6	
Positive Control ¹³	3218 ± 67.0				
Positive Control ¹⁶			1034 ± 29.0		
Positive Control ¹⁷					

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	120 ± 12.0		136 ± 6.2
Vehicle Control ³		116 ± 6.2	
0.5	129 ± 1.2		126 ± 4.7
1.0	122 ± 13.8		119 ± 2.0
1.0			
3.0	125 ± 8.4		102 ± 4.4
3.3		110 ± 8.0	
4.0	120 ± 7.0		118 ± 5.2
5.0	124 ± 6.3		123 ± 4.3
10.0		135 ± 14.0	
33.0		108 ± 5.9	
100.0		130 ± 15.0	
333.0		109 ± 7.7 ^s	
Trial Summary	Negative	Negative	Negative
Positive Control ¹⁵			
Positive Control ⁹			
Positive Control ⁸	3272 ± 155.6		
Positive Control ¹²			1387 ± 44.0
Positive Control ¹³			
Positive Control ¹⁶		1150 ± 58.9	
Positive Control ¹⁷			

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 Test Compound: n-Pentane
 CAS Number: 109-66-0

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	Without S9
Vehicle Control ¹			10 ± 1.7	29 ± 4.2	44 ± 7.6
Vehicle Control ²					
Vehicle Control ³	38 ± 3.5	27 ± 1.5			
0.01			12 ± 3.0	23 ± 0.3	
0.05			6 ± 2.7	21 ± 1.2	
0.1			8 ± 1.0	20 ± 2.0	
0.5			14 ± 1.9	19 ± 0.3	51 ± 5.9
1.0			17 ± 1.2	20 ± 1.2	36 ± 1.7
1.0		26 ± 1.3			
3.0					38 ± 8.2
3.3	32 ± 1.5	19 ± 2.0			
4.0					42 ± 8.1
5.0					37 ± 6.2
10.0	26 ± 3.2	21 ± 1.7			
33.0	30 ± 3.8	23 ± 0.9			
100.0	17 ± 0.3 ^s	14 ± 1.5 ^s			
333.0	12 ± 3.5 ^s				
1000.0					
3333.0					
6667.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁵					
Positive Control ⁴					
Positive Control ¹⁰					
Positive Control ¹⁸			677 ± 5.0	164 ± 5.7	189 ± 3.8
Positive Control ¹¹					
Positive Control ¹⁹	220 ± 8.3	396 ± 17.6			

Experiment Number: 502864

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: n-Pentane

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	21 ± 4.9		31 ± 3.7		16 ± 0.9
Vehicle Control ²					
Vehicle Control ³		40 ± 4.7		43 ± 6.1	
0.01					15 ± 0.9
0.05					10 ± 3.6
0.1					20 ± 4.4
0.5	21 ± 1.8		34 ± 1.5		23 ± 2.3
1.0	27 ± 0.3		30 ± 3.2		25 ± 3.4
1.0					
3.0	17 ± 1.7		34 ± 4.4		
3.3		40 ± 5.5		49 ± 3.0	
4.0	23 ± 1.5		31 ± 3.1		
5.0	20 ± 1.2		31 ± 2.0		
10.0		31 ± 5.6		42 ± 1.0	
33.0		29 ± 3.3		42 ± 2.4	
100.0		30 ± 3.1		46 ± 4.7	
333.0		19 ± 0.9 ^s		28 ± 5.9 ^s	
1000.0					
3333.0					
6667.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁵		323 ± 23.1			
Positive Control ⁴			1082 ± 44.4		
Positive Control ¹⁰					548 ± 5.7
Positive Control ¹⁸	228 ± 6.1				
Positive Control ¹¹				398 ± 15.6	
Positive Control ¹⁹					

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Test Compound: n-Pentane

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Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	42 ± 4.1	36 ± 5.9		30 ± 5.0	
Vehicle Control ²					
Vehicle Control ³			36 ± 1.5		28 ± 1.2
0.01	37 ± 3.9				
0.05	33 ± 3.8				
0.1	43 ± 2.3				
0.5	38 ± 9.0	37 ± 3.5		28 ± 1.9	
1.0	37 ± 2.8	39 ± 2.1		36 ± 4.0	
1.0					
3.0		25 ± 1.7		34 ± 6.2	
3.3			39 ± 1.2		38 ± 1.7
4.0		33 ± 4.1		35 ± 6.1	
5.0		34 ± 5.9		32 ± 3.4	
10.0			33 ± 2.3		35 ± 0.3
33.0			40 ± 2.9		35 ± 3.8
100.0			45 ± 1.2		32 ± 6.2
333.0			32 ± 2.4 ^s		26 ± 1.8 ^s
1000.0					
3333.0					
6667.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁵			240 ± 1.5		
Positive Control ⁴				863 ± 25.0	
Positive Control ¹⁰	975 ± 15.8	328 ± 7.0			
Positive Control ¹⁸					
Positive Control ¹¹					384 ± 5.0
Positive Control ¹⁹					

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	24 ± 3.9	41 ± 1.5	41 ± 3.8
Vehicle Control ²			
Vehicle Control ³			
0.01	16 ± 4.7	33 ± 2.2	
0.05	14 ± 4.7	34 ± 5.8	
0.1	23 ± 0.9	27 ± 3.5	
0.5	26 ± 2.6	34 ± 1.2	42 ± 7.1
1.0	19 ± 2.3	38 ± 2.7	42 ± 4.8
1.0			
3.0			36 ± 5.8
3.3			
4.0			35 ± 4.4
5.0			29 ± 2.8
10.0			
33.0			
100.0			
333.0			
1000.0			
3333.0			
6667.0			
Trial Summary	Negative	Negative	Negative
Positive Control ⁵			
Positive Control ⁴			
Positive Control ¹⁰	1017 ± 16.4	939 ± 31.9	697 ± 29.4
Positive Control ¹⁸			
Positive Control ¹¹			
Positive Control ¹⁹			

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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: Solvent
- 2: Vehicle Control: Dimethyl Sulfoxide
- 3: Vehicle Control: 95% Ethanol
- 4: 0.4 mL/Chamber 2-Aminoanthracene
- 5: 0.4 ug/Plate 2-Aminoanthracene
- 6: 0.5 mL/Chamber Sodium Azide
- 7: 0.5 ug/Plate Sodium Azide
- 8: 0.75 mL/Chamber 2-Aminoanthracene
- 9: 0.75 ug/Plate 2-Aminoanthracene
- 10: 1.0 mL/Chamber 2-Aminoanthracene
- 11: 1.0 ug/Plate 2-Aminoanthracene
- 12: 2.0 mL/Chamber 2-Aminoanthracene
- 13: 2.0 ug/Plate 2-Aminoanthracene
- 14: 1.0 ug/Plate Sodium Azide
- 15: 0.05 ug/Plate Solvent
- 16: 2.5 ug/Plate 2-Aminoanthracene
- 17: 24.0 mL/Chamber 9-Aminoacridine
- 18: 1.0 mL/Chamber 4-Nitro-O-Phenylenediamine
- 19: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

** END OF REPORT **