

Experiment Number: 612251

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Decane

CAS Number: 124-18-5

Date Report Requested: 09/15/2018

Time Report Requested: 06:53:59

NTP Study Number:

612251

Study Result:

Equivocal

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Test Compound: Decane

CAS Number: 124-18-5

Date Report Requested: 09/15/2018

Time Report Requested: 06:53:59

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	130 ± 11.6	176 ± 2.3	125 ± 4.7	126 ± 13.3	174 ± 3.7
100.0	141 ± 5.8	163 ± 6.0	123 ± 8.7	150 ± 5.8	163 ± 4.7
333.0	119 ± 4.6	150 ± 7.5	128 ± 3.5	141 ± 2.5	150 ± 12.1
1000.0	111 ± 7.9	130 ± 6.1	159 ± 6.2	120 ± 5.4	170 ± 5.8
3333.0	133 ± 4.8	149 ± 11.6	121 ± 20.2	134 ± 7.2	140 ± 5.9
10000.0	143 ± 3.7	158 ± 8.4	121 ± 13.7	138 ± 6.7	171 ± 4.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					778 ± 32.0
Positive Control ³			460 ± 5.0		
Positive Control ⁴	425 ± 16.3	412 ± 20.5			
Positive Control ⁵				542 ± 31.3	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	105 ± 4.2
100.0	133 ± 4.2
333.0	135 ± 16.1
1000.0	105 ± 7.8
3333.0	107 ± 8.2
10000.0	112 ± 6.4
Trial Summary	Negative
Positive Control ²	
Positive Control ³	756 ± 60.6
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	34 ± 1.5	16 ± 1.2	16 ± 0.3	13 ± 1.7	13 ± 2.3
100.0	33 ± 2.8	16 ± 0.9	9 ± 0.9	13 ± 0.3	12 ± 1.9
333.0	27 ± 3.8	14 ± 3.0	10 ± 1.2	8 ± 0.9	13 ± 1.9
1000.0	24 ± 5.0	11 ± 0.6	14 ± 0.0	8 ± 1.9	9 ± 1.5
3333.0	23 ± 5.5	12 ± 1.0	16 ± 2.4	11 ± 2.6	10 ± 2.2
10000.0	21 ± 1.2	13 ± 0.6	12 ± 0.7	6 ± 1.2	12 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					236 ± 23.4
Positive Control ⁴	515 ± 8.7	267 ± 6.1			
Positive Control ⁵			154 ± 14.0		
Positive Control ⁶				106 ± 14.8	

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Test Compound: Decane

CAS Number: 124-18-5

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	16 ± 1.3
100.0	11 ± 0.9
333.0	13 ± 2.1
1000.0	11 ± 2.8
3333.0	13 ± 3.2
10000.0	11 ± 2.0
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	505 ± 11.0
Positive Control ⁶	

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Test Compound: Decane

CAS Number: 124-18-5

Date Report Requested: 09/15/2018

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	8 ± 1.5	10 ± 1.5	9 ± 1.2	13 ± 3.5	13 ± 2.4
100.0	7 ± 1.3	6 ± 0.6	8 ± 1.9	10 ± 2.6	12 ± 1.2
333.0	11 ± 0.6	8 ± 0.6	7 ± 0.3	11 ± 2.2	10 ± 1.2
1000.0	13 ± 3.2	8 ± 0.9	8 ± 1.3	5 ± 2.9	9 ± 2.4
3333.0	10 ± 2.0	6 ± 1.7	8 ± 2.0	7 ± 0.3	8 ± 0.0
10000.0	13 ± 3.2	9 ± 1.5	8 ± 1.8	8 ± 0.9	11 ± 1.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³		76 ± 9.6	52 ± 1.2		56 ± 5.5
Positive Control ⁵				49 ± 0.7	
Positive Control ⁷	691 ± 38.8				

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	180 ± 5.5	181 ± 21.3	165 ± 10.2	177 ± 5.0	196 ± 3.5
100.0	163 ± 5.7	194 ± 3.2		198 ± 6.2	188 ± 4.2
333.0	158 ± 8.1	192 ± 6.1	182 ± 12.9	212 ± 11.3	187 ± 3.5
1000.0	166 ± 5.7	186 ± 8.0	182 ± 7.6	236 ± 2.0	207 ± 8.6
1666.0			199 ± 8.0		
3333.0	175 ± 4.5	190 ± 15.4	193 ± 7.4	247 ± 13.5	239 ± 10.2
6666.0			186 ± 12.3		
10000.0	151 ± 8.7	198 ± 5.8		244 ± 6.8	221 ± 7.9
Trial Summary	Negative	Negative	Negative	Weakly Positive	Equivocal
Positive Control ²					
Positive Control ³			455 ± 30.6	389 ± 15.7	354 ± 10.2
Positive Control ⁵					
Positive Control ⁷	754 ± 19.8	407 ± 16.6			

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Date Report Requested: 09/15/2018

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

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CAS Number: 124-18-5

Strain: TA97

Dose (ug/Plate)	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	194 ± 2.7	187 ± 12.4	178 ± 9.5	187 ± 10.4
100.0		194 ± 7.5	193 ± 9.3	162 ± 5.8
333.0	171 ± 5.0	186 ± 14.3	194 ± 5.8	174 ± 6.6
1000.0	202 ± 7.6	208 ± 7.0	201 ± 6.2	155 ± 3.8
1666.0	215 ± 2.1			
3333.0	178 ± 2.6	207 ± 1.0	192 ± 2.3	165 ± 5.3
6666.0	193 ± 8.9			
10000.0		186 ± 9.2	199 ± 4.5	146 ± 8.5
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²			623 ± 31.5	
Positive Control ³	352 ± 18.2			449 ± 32.1
Positive Control ⁵		431 ± 29.9		
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	27 ± 3.6	17 ± 3.0	29 ± 4.1	46 ± 4.8	36 ± 2.3
100.0	20 ± 2.3	19 ± 1.5	34 ± 3.3	39 ± 3.1	35 ± 3.2
333.0	21 ± 0.9	17 ± 1.8	32 ± 4.1	35 ± 2.9	35 ± 2.7
1000.0	16 ± 1.2	17 ± 1.5	33 ± 6.3	34 ± 2.7	36 ± 0.3
3333.0	16 ± 3.0	17 ± 1.8	33 ± 4.2	37 ± 4.0	41 ± 0.9
10000.0	24 ± 3.0	14 ± 2.4	35 ± 1.2	40 ± 3.5	38 ± 4.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					732 ± 34.9
Positive Control ³			301 ± 45.2	151 ± 12.5	
Positive Control ⁸	510 ± 1.5	384 ± 27.0			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	31 ± 2.7
100.0	35 ± 1.0
333.0	28 ± 1.7
1000.0	24 ± 1.9
3333.0	20 ± 2.6
10000.0	30 ± 4.6
Trial Summary	Negative
Positive Control ²	
Positive Control ³	427 ± 40.4
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: Acetone

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 ****