

Experiment Number: A75336

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

G06: Ames Summary Data

Test Compound: **1-Octene**

CAS Number: **111-66-0**

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

Time Report Requested: **19:28:09**

NTP Study Number:

A75336

Study Result:

Negative

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G06: Ames Summary Data

Date Report Requested: 09/17/2018

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

Test Compound: 1-Octene

Time Report Requested: 19:28:09

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	119 ± 4.0	112 ± 2.6	128 ± 1.7	128 ± 4.0	131 ± 2.2
10.0	110 ± 5.0	113 ± 5.6			
33.0	102 ± 6.7	128 ± 7.4	123 ± 5.7		110 ± 0.3
100.0	107 ± 12.0	120 ± 16.8	136 ± 10.1	115 ± 6.1	121 ± 3.2
333.0	112 ± 4.8	127 ± 12.4	125 ± 2.8	119 ± 2.3	124 ± 4.9
666.0		109 ± 2.7			
1000.0	53 ± 7.0 ^s		121 ± 3.1	110 ± 2.2	124 ± 3.2
3333.0			104 ± 10.3	108 ± 6.4	92 ± 6.3
10000.0				100 ± 0.7	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					752 ± 17.9
Positive Control ³			592 ± 13.6		
Positive Control ⁴	837 ± 14.4	919 ± 17.2			
Positive Control ⁵				437 ± 10.6	

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Test Compound: 1-Octene

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Date Report Requested: 09/17/2018

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	113 ± 6.4
10.0	
33.0	
100.0	107 ± 4.4
333.0	106 ± 9.3
666.0	
1000.0	122 ± 7.5
3333.0	122 ± 3.3
10000.0	110 ± 4.9
Trial Summary	Negative
Positive Control ²	
Positive Control ³	559 ± 21.4
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	10 ± 0.9	8 ± 0.3	7 ± 0.6	12 ± 1.8	7 ± 0.7
10.0	8 ± 1.0	7 ± 1.5			
33.0	8 ± 0.9	6 ± 0.3	8 ± 1.3		8 ± 0.9
100.0	10 ± 1.9	7 ± 1.8	7 ± 2.3	9 ± 0.7	7 ± 1.7
333.0	11 ± 2.0	8 ± 1.2	8 ± 1.8	9 ± 2.5	8 ± 1.7
666.0	3 ± 0.3 ^s	4 ± 1.2 ^s			
1000.0			7 ± 2.0	11 ± 1.5	6 ± 1.2
3333.0			4 ± 1.0 ^s	11 ± 3.0	5 ± 2.5 ^s
10000.0				8 ± 0.3	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					192 ± 8.1
Positive Control ⁵			169 ± 15.2		
Positive Control ⁴	955 ± 8.3	980 ± 23.7			
Positive Control ⁶				231 ± 32.4	

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Test Compound: 1-Octene
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Date Report Requested: 09/17/2018
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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 1.7
10.0	
33.0	
100.0	8 ± 1.2
333.0	10 ± 4.2
666.0	
1000.0	7 ± 0.6
3333.0	12 ± 3.0
10000.0	8 ± 0.9
Trial Summary	Negative
Positive Control ³	
Positive Control ⁵	333 ± 15.3
Positive Control ⁴	
Positive Control ⁶	

Experiment Number: A75336

G06: Ames Summary Data

Date Report Requested: 09/17/2018

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

Test Compound: 1-Octene

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9	With 5% Hamster S9
Vehicle Control ¹	9 ± 1.0	9 ± 0.7	11 ± 1.8	9 ± 1.2	8 ± 1.2
10.0	7 ± 0.6				
33.0	8 ± 0.6	11 ± 1.7	11 ± 0.9	15 ± 5.2	8 ± 0.6
100.0	8 ± 1.5	6 ± 0.9	8 ± 2.4	10 ± 2.3	6 ± 0.3
333.0	7 ± 0.6	8 ± 2.3	8 ± 0.6	10 ± 2.1	9 ± 0.9
666.0	3 ± 0.7 ^s				
1000.0		7 ± 0.3	11 ± 2.1	10 ± 2.6	5 ± 0.9
3333.0		5 ± 1.3	6 ± 0.9	8 ± 0.9	9 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					373 ± 24.9
Positive Control ⁵		440 ± 2.6	336 ± 13.0		
Positive Control ⁶				209 ± 47.3	
Positive Control ⁷	698 ± 43.9				

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	9 ± 0.9	11 ± 1.5
10.0		
33.0	9 ± 0.9	10 ± 0.7
100.0	8 ± 0.7	9 ± 2.0
333.0	6 ± 1.2	9 ± 0.7
666.0		
1000.0	6 ± 1.2	10 ± 1.2
3333.0	8 ± 1.2	7 ± 1.0
Trial Summary	Negative	Negative
Positive Control ³	371 ± 39.7	
Positive Control ⁵		380 ± 9.3
Positive Control ⁶		
Positive Control ⁷		

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 5% Rat S9
Vehicle Control ¹	126 ± 6.1	111 ± 1.8	157 ± 10.4	167 ± 8.0	135 ± 5.2
3.0		116 ± 3.8			
10.0	187 ± 5.5	117 ± 4.7	150 ± 3.8	160 ± 1.9	
16.0		120 ± 9.5			
33.0	337 ± 23.4	116 ± 6.9	153 ± 3.5	170 ± 12.0	127 ± 3.8
66.0		132 ± 12.0			
100.0	233 ± 19.1		160 ± 6.0	155 ± 9.3	132 ± 5.6
333.0	138 ± 4.7		155 ± 8.8	177 ± 8.2	129 ± 4.7
666.0	90 ± 2.0 ^s		123 ± 1.2	107 ± 7.0 ^s	
1000.0					128 ± 14.0
3333.0					82 ± 3.1 ^s
10000.0					
Trial Summary	Positive	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³					976 ± 43.1
Positive Control ⁵					
Positive Control ⁷	623 ± 23.5	703 ± 81.5	616 ± 42.5	491 ± 14.6	

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Strain: TA97

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	159 ± 9.9	174 ± 6.4	169 ± 1.5	145 ± 9.4	134 ± 2.9
3.0					
10.0					
16.0					
33.0	142 ± 8.5	162 ± 5.8		145 ± 4.7	122 ± 7.0
66.0					
100.0	155 ± 6.5	193 ± 2.2	170 ± 11.5	143 ± 7.5	123 ± 14.8
333.0	147 ± 8.5	191 ± 6.9	176 ± 14.4	155 ± 17.4	142 ± 5.8
666.0					
1000.0	162 ± 12.3	172 ± 14.3	191 ± 12.3	130 ± 15.8	138 ± 13.7
3333.0	91 ± 5.5 ^s	114 ± 6.7	200 ± 7.9	87 ± 6.4 ^s	70 ± 4.4 ^s
10000.0			130 ± 9.8		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				1016 ± 41.1	907 ± 24.9
Positive Control ³	636 ± 30.6	537 ± 18.6			
Positive Control ⁵			586 ± 38.7		
Positive Control ⁷					

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	151 ± 7.6	171 ± 12.1
3.0		
10.0		
16.0		
33.0	167 ± 11.4	
66.0		
100.0	163 ± 12.9	155 ± 8.8
333.0	168 ± 13.1	176 ± 0.6
666.0		
1000.0	161 ± 5.9	196 ± 5.5
3333.0	97 ± 2.6	221 ± 16.9
10000.0		154 ± 10.7
Trial Summary	Negative	Negative
Positive Control ²	644 ± 19.6	
Positive Control ³		626 ± 24.9
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	23 ± 3.2	13 ± 1.9	21 ± 2.1	21 ± 2.0	15 ± 1.7
10.0	15 ± 2.2	9 ± 1.5			
33.0	18 ± 0.6	9 ± 2.8	20 ± 0.7		13 ± 0.6
100.0	14 ± 3.2	13 ± 3.0	20 ± 2.6	21 ± 2.0	19 ± 0.9
333.0	13 ± 1.9	11 ± 1.5	16 ± 2.5	24 ± 0.3	18 ± 2.4
666.0		8 ± 2.7			
1000.0	Toxic		18 ± 0.7	22 ± 3.6	17 ± 1.9
3333.0			10 ± 2.5 ^s	17 ± 2.4	18 ± 1.7
10000.0				17 ± 0.6	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					519 ± 31.3
Positive Control ³			348 ± 29.9		
Positive Control ⁸	340 ± 9.2	350 ± 19.0			
Positive Control ⁵				514 ± 6.7	

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Time Report Requested: 19:28:09

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	20 ± 2.7
10.0	
33.0	
100.0	21 ± 2.3
333.0	22 ± 2.0
666.0	
1000.0	22 ± 4.3
3333.0	17 ± 2.1
10000.0	18 ± 0.9
Trial Summary	Negative
Positive Control ²	
Positive Control ³	534 ± 13.2
Positive Control ⁸	
Positive Control ⁵	

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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: 1.0 ug/Plate 2-Aminoanthracene

3: 2.0 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 5.0 ug/Plate 2-Aminoanthracene

6: 10.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

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

s: Slight Toxicity

**** END OF REPORT ****