

Experiment Number: 548878

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1-Pentanol

CAS Number: 71-41-0

Date Report Requested: 09/13/2018

Time Report Requested: 17:46:39

NTP Study Number:

548878

Study Result:

Negative

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Date Report Requested: 09/13/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	139 ± 8.8	115 ± 4.3	107 ± 4.9	165 ± 5.8	135 ± 15.3
33.0		122 ± 3.8			
100.0	136 ± 12.0	120 ± 9.1	126 ± 11.0	142 ± 6.3	141 ± 3.8
333.0	120 ± 7.6	125 ± 7.8	113 ± 5.5	173 ± 2.4	140 ± 7.7
1000.0	116 ± 4.2	116 ± 6.4	116 ± 10.0	176 ± 12.2	123 ± 6.8
3333.0	119 ± 7.9	96 ± 12.1	120 ± 2.7	178 ± 9.2	130 ± 5.7
6666.0	Toxic		96 ± 6.8	126 ± 16.2 ^s	109 ± 13.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					822 ± 12.8
Positive Control ³			557 ± 24.5		
Positive Control ⁴	604 ± 4.0	464 ± 24.9			
Positive Control ⁵				478 ± 14.7	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	163 ± 1.7
33.0	
100.0	166 ± 15.5
333.0	175 ± 2.7
1000.0	169 ± 6.1
3333.0	141 ± 7.0
6666.0	126 ± 5.8
Trial Summary	Negative
Positive Control ²	
Positive Control ³	529 ± 14.2
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	19 ± 4.5	21 ± 0.3	8 ± 0.7	12 ± 0.0	11 ± 1.7
33.0		22 ± 3.7			
100.0	20 ± 2.0	17 ± 1.8	10 ± 0.7	12 ± 0.3	12 ± 3.0
333.0	19 ± 2.6	21 ± 4.5	10 ± 0.9	15 ± 1.0	6 ± 0.9
1000.0	19 ± 2.7	16 ± 0.9	8 ± 1.5	11 ± 1.5	7 ± 2.3
3333.0	21 ± 1.5	17 ± 1.0	11 ± 2.2	12 ± 1.9	5 ± 1.9
6666.0			10 ± 2.8		
10000.0	4 ± 1.7 ^s			8 ± 0.0	6 ± 1.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					263 ± 28.7
Positive Control ⁴	423 ± 19.6	498 ± 23.3			
Positive Control ⁶			204 ± 7.5		
Positive Control ⁷				224 ± 10.2	

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Date Report Requested: 09/13/2018

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	7 ± 1.8
33.0	
100.0	13 ± 1.5
333.0	9 ± 1.8
1000.0	9 ± 0.3
3333.0	7 ± 1.2
6666.0	
10000.0	7 ± 2.0
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁶	375 ± 13.0
Positive Control ⁷	

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Test Compound: 1-Pentanol
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Date Report Requested: 09/13/2018
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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	8 ± 2.4	12 ± 3.4	13 ± 0.6
100.0	8 ± 1.2	10 ± 1.7	12 ± 1.9
333.0	9 ± 1.2	9 ± 1.3	9 ± 2.1
1000.0	7 ± 1.5	7 ± 1.0	9 ± 1.8
3333.0	6 ± 1.5	6 ± 0.9	9 ± 2.3
10000.0	2 ± 0.9 ⁵	3 ± 1.5	4 ± 0.7
Trial Summary	Negative	Negative	Negative
Positive Control ³			40 ± 1.7
Positive Control ⁶		39 ± 0.6	
Positive Control ⁸	425 ± 29.5		

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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	136 ± 10.5	111 ± 7.4	200 ± 16.5	111 ± 6.5	186 ± 5.4
33.0		147 ± 13.8			
100.0	159 ± 12.3	136 ± 2.2	186 ± 6.9	165 ± 0.9	211 ± 7.0
333.0	163 ± 6.7	157 ± 9.5	197 ± 5.5	183 ± 5.4	199 ± 6.5
1000.0	154 ± 3.5	144 ± 10.6	196 ± 2.6	170 ± 12.8	208 ± 1.5
3333.0	111 ± 8.5	111 ± 1.8	174 ± 7.9	174 ± 0.9	191 ± 2.8
6666.0			177 ± 7.3	82 ± 8.7	146 ± 10.1 ^s
10000.0	17 ± 1.7 ^s				
Trial Summary	Negative	Equivocal	Negative	Equivocal	Negative
Positive Control ²					
Positive Control ³			478 ± 22.5	305 ± 23.5	410 ± 10.0
Positive Control ⁶					
Positive Control ⁸	911 ± 28.7	542 ± 20.9			

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Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	153 ± 2.7	152 ± 9.2	165 ± 6.4
33.0			
100.0	189 ± 6.8	150 ± 12.9	160 ± 17.2
333.0	191 ± 3.2	161 ± 3.3	179 ± 8.3
1000.0	177 ± 11.5	159 ± 4.4	170 ± 4.5
3333.0	166 ± 18.6	162 ± 2.2	137 ± 11.0
6666.0		108 ± 12.5	
10000.0	119 ± 7.5 ^s		130 ± 15.8
Trial Summary	Equivocal	Negative	Negative
Positive Control ²		463 ± 27.3	
Positive Control ³			369 ± 45.8
Positive Control ⁶	388 ± 19.2		
Positive Control ⁸			

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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	16 ± 4.1	19 ± 1.2	29 ± 1.5	28 ± 3.2	24 ± 2.9
33.0		19 ± 2.4			
100.0	22 ± 0.7	15 ± 2.2	28 ± 0.7	27 ± 0.6	24 ± 1.9
333.0	17 ± 0.3	20 ± 1.8	25 ± 1.2	29 ± 2.3	26 ± 2.6
1000.0	21 ± 0.0	14 ± 2.7	26 ± 1.5	27 ± 0.6	20 ± 0.7
3333.0	14 ± 2.1	14 ± 1.0	26 ± 0.9	28 ± 2.3	24 ± 2.1
6666.0	3 ± 2.5 ^s		21 ± 2.6	16 ± 1.2	17 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			250 ± 25.3	160 ± 2.7	1359 ± 38.1
Positive Control ⁹	538 ± 10.7	543 ± 12.7			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	27 ± 1.8
33.0	
100.0	25 ± 4.5
333.0	24 ± 0.3
1000.0	30 ± 3.2
3333.0	25 ± 3.2
6666.0	21 ± 5.0
Trial Summary	Negative
Positive Control ³	373 ± 19.3
Positive Control ⁹	

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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: 2.0 ug/Plate 2-Aminoanthracene

6: 2.5 ug/Plate 2-Aminoanthracene

7: 5.0 ug/Plate 2-Aminoanthracene

8: 50.0 ug/Plate 9-Aminoacridine

9: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

** END OF REPORT **