

Experiment Number: 229167

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

G06: Ames Summary Data

Test Compound: **Peracetic acid**

CAS Number: **79-21-0**

Date Report Requested: **09/15/2018**

Time Report Requested: **03:26:24**

NTP Study Number:

229167

Study Result:

Negative

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Test Compound: Peracetic acid

CAS Number: 79-21-0

Date Report Requested: 09/15/2018

Time Report Requested: 03:26:24

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	108 ± 6.5	120 ± 4.4	85 ± 4.2	120 ± 4.1	77 ± 1.8
0.3	116 ± 5.6	118 ± 7.5			
1.0	119 ± 6.9	110 ± 3.3			
3.3	108 ± 6.7	109 ± 2.9	79 ± 2.2	123 ± 4.4	80 ± 4.2
10.0	117 ± 4.4	113 ± 1.5 ^s	87 ± 0.3	131 ± 1.8	73 ± 4.8
20.0	78 ± 9.3 ^s	79 ± 2.0 ^s			
33.0			84 ± 5.4	138 ± 0.9	75 ± 2.6
100.0			85 ± 4.3	124 ± 6.7	74 ± 1.5
200.0			40 ± 10.0 ^s	127 ± 7.9	76 ± 1.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					761 ± 21.3
Positive Control ³			1218 ± 43.4		
Positive Control ⁴				1001 ± 26.7	
Positive Control ⁵	1008 ± 105.2	990 ± 16.7			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	132 ± 8.4
0.3	
1.0	
3.3	104 ± 7.2
10.0	102 ± 9.0
20.0	
33.0	103 ± 6.3
100.0	118 ± 5.5
200.0	124 ± 0.9
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	1431 ± 55.5
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	27 ± 5.0	21 ± 0.3	9 ± 0.9	14 ± 1.8	5 ± 1.5
0.3	24 ± 0.7	20 ± 1.0			
1.0	26 ± 1.2	21 ± 3.2			
3.3	27 ± 0.9	20 ± 1.8	6 ± 1.2	11 ± 2.9	8 ± 1.7
10.0	28 ± 5.0	12 ± 2.7	6 ± 1.5	9 ± 0.0	7 ± 1.2
20.0	16 ± 1.3 ^s	9 ± 2.0 ^s			
33.0			6 ± 0.6	12 ± 1.2	8 ± 0.9
100.0			8 ± 1.2	13 ± 2.1	6 ± 2.3
200.0			5 ± 0.7 ^s	11 ± 1.7	5 ± 0.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					75 ± 2.5
Positive Control ³			95 ± 3.8		
Positive Control ⁶	1183 ± 79.1				
Positive Control ⁴				133 ± 13.1	
Positive Control ⁵		902 ± 10.0			

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 0.9
0.3	
1.0	
3.3	12 ± 2.5
10.0	12 ± 1.2
20.0	
33.0	10 ± 1.0
100.0	12 ± 2.2
200.0	10 ± 1.5
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁶	
Positive Control ⁴	214 ± 13.4
Positive Control ⁵	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	83 ± 1.8	126 ± 1.3	88 ± 2.7	170 ± 2.1	84 ± 3.0
0.3	84 ± 4.0	112 ± 6.4			
1.0	81 ± 3.8	122 ± 2.0			
3.3	80 ± 2.8	58 ± 3.5	88 ± 3.2	170 ± 10.5	97 ± 6.2
10.0	83 ± 3.0	44 ± 12.9	98 ± 3.2	177 ± 4.9	83 ± 5.5
20.0	76 ± 4.3 ^s	58 ± 4.7 ^s			
33.0			92 ± 4.3	174 ± 6.1	90 ± 6.1
100.0			101 ± 5.9	178 ± 11.5	90 ± 7.5
200.0			62 ± 7.5 ^s	160 ± 7.7	102 ± 8.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					527 ± 6.7
Positive Control ³			702 ± 23.7		
Positive Control ⁴				592 ± 20.3	
Positive Control ⁷	1005 ± 198.7	986 ± 53.8			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	166 ± 6.0
0.3	
1.0	
3.3	156 ± 10.7
10.0	151 ± 15.2
20.0	
33.0	173 ± 4.1
100.0	165 ± 12.9
200.0	146 ± 4.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	865 ± 16.5
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	12 ± 0.3	42 ± 1.2	28 ± 7.2	45 ± 1.7	23 ± 2.9
0.3	15 ± 1.8	41 ± 3.5			
1.0	15 ± 2.6	40 ± 5.9			
3.3	15 ± 1.3	32 ± 2.6	25 ± 1.2	49 ± 4.3	23 ± 1.8
10.0	19 ± 0.9	34 ± 3.1 ^s	24 ± 1.5	44 ± 1.8	19 ± 3.6
20.0	18 ± 3.8 ^s	6 ± 0.0 ^s			
33.0			21 ± 2.8	40 ± 4.4	21 ± 2.0
100.0			22 ± 0.7	46 ± 2.9	24 ± 3.2
200.0			14 ± 1.7 ^s	33 ± 1.5	23 ± 2.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					756 ± 28.8
Positive Control ³			1077 ± 58.6		
Positive Control ⁴				674 ± 25.4	
Positive Control ⁸	1633 ± 39.6	1927 ± 50.2			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	45 ± 6.6
0.3	
1.0	
3.3	46 ± 2.6
10.0	45 ± 3.2
20.0	
33.0	46 ± 2.3
100.0	41 ± 0.3
200.0	36 ± 0.6
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	1106 ± 19.3
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: Water

2: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 1.5 ug/Plate Sodium Azide

7: 4.0 ug/Plate 9-Aminoacridine

8: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****