

Experiment Number: 429474

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Acetic anhydride

CAS Number: 108-24-7

Date Report Requested: 09/15/2018

Time Report Requested: 06:30:47

NTP Study Number:

429474

Study Result:

Negative

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Test Compound: Acetic anhydride

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	130 ± 8.8	163 ± 1.2	131 ± 13.7	176 ± 4.0	102 ± 3.8
3.3	105 ± 7.9	163 ± 11.3			
10.0	135 ± 7.7	157 ± 14.7	121 ± 10.7	148 ± 9.0	99 ± 2.2
33.0	119 ± 5.9	170 ± 4.2	130 ± 3.2	150 ± 3.5	105 ± 7.2
100.0	113 ± 4.9	173 ± 4.5	112 ± 6.5	148 ± 1.2	93 ± 4.1
190.0	95 ± 2.3 ^s	124 ± 10.7 ^s			
333.0			121 ± 9.0	138 ± 13.4	92 ± 2.4
900.0			81 ± 9.8 ^s	97 ± 5.8 ^s	
1000.0					95 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1483 ± 60.0
Positive Control ³			1638 ± 48.1	2507 ± 72.4	
Positive Control ⁴	1213 ± 25.6	1462 ± 38.7			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	148 ± 12.9
3.3	
10.0	147 ± 10.2
33.0	131 ± 5.8
100.0	143 ± 4.6
190.0	
333.0	118 ± 1.3
900.0	
1000.0	108 ± 13.2 ^s
Trial Summary	Negative
Positive Control ²	2282 ± 47.5
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	41 ± 2.9	43 ± 4.3	34 ± 3.4	28 ± 1.7	11 ± 2.1
3.3	35 ± 3.3	38 ± 4.1			
10.0	30 ± 1.0	44 ± 3.8	29 ± 1.5	22 ± 0.9	13 ± 0.3
33.0	34 ± 0.9	48 ± 2.8	36 ± 4.1	24 ± 1.5	8 ± 1.9
100.0	33 ± 4.8	34 ± 1.9	27 ± 4.2	24 ± 2.5	12 ± 0.7
190.0	16 ± 2.8 ^s	18 ± 3.5 ^s			
333.0			23 ± 1.5	13 ± 2.5	12 ± 0.3
900.0			14 ± 1.0 ^s	9 ± 0.9 ^s	
1000.0					6 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					150 ± 6.6
Positive Control ³			149 ± 7.2	248 ± 4.0	
Positive Control ⁴	1112 ± 21.2	1054 ± 65.6			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	18 ± 2.3
3.3	
10.0	18 ± 1.3
33.0	17 ± 1.7
100.0	20 ± 3.9
190.0	
333.0	11 ± 2.0
900.0	
1000.0	8 ± 2.0 ^s
Trial Summary	Negative
Positive Control ²	264 ± 8.2
Positive Control ³	
Positive Control ⁴	

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.0	7 ± 2.2	6 ± 0.9	5 ± 0.9	12 ± 2.7
3.3	6 ± 1.3	4 ± 0.3			
10.0	10 ± 0.0	5 ± 0.9	7 ± 1.2	6 ± 0.7	9 ± 1.8
33.0	8 ± 0.9	5 ± 0.3	8 ± 1.5	8 ± 1.2	6 ± 1.9
100.0	6 ± 1.2	4 ± 0.9	9 ± 2.5	5 ± 0.3	10 ± 0.3
190.0	4 ± 1.2 ^s	5 ± 1.7 ^s			
333.0			9 ± 1.3	6 ± 1.9	7 ± 0.7
900.0			3 ± 1.2 ^s	3 ± 1.5 ^s	
1000.0					8 ± 0.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					92 ± 8.6
Positive Control ³			113 ± 8.8	304 ± 41.6	
Positive Control ⁵	546 ± 74.0	209 ± 20.0			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 1.3
3.3	
10.0	6 ± 1.0
33.0	7 ± 1.0
100.0	8 ± 0.9
190.0	
333.0	4 ± 0.7
900.0	
1000.0	3 ± 0.7 ^s
Trial Summary	Negative
Positive Control ²	305 ± 9.8
Positive Control ³	
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	16 ± 0.9	21 ± 3.1	34 ± 5.5	28 ± 2.0	26 ± 1.0
3.3	21 ± 1.7	18 ± 2.3			
10.0	23 ± 1.2	18 ± 1.5	36 ± 2.5	31 ± 3.2	33 ± 1.2
33.0	14 ± 1.7	20 ± 2.1	33 ± 3.0	31 ± 4.3	32 ± 2.2
100.0	13 ± 0.7	18 ± 0.9	34 ± 1.5	27 ± 2.0	28 ± 2.7
190.0	14 ± 2.6 ^s	13 ± 0.3 ^s			
333.0			28 ± 2.1	25 ± 3.8	34 ± 1.5
900.0			12 ± 1.2 ^s	12 ± 1.2 ^s	
1000.0					25 ± 1.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1074 ± 60.1
Positive Control ³			1132 ± 49.9	2355 ± 23.1	
Positive Control ⁶	1382 ± 40.9	1085 ± 23.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	35 ± 0.9
3.3	
10.0	33 ± 2.3
33.0	26 ± 3.4
100.0	28 ± 1.5
190.0	
333.0	31 ± 0.7
900.0	
1000.0	24 ± 4.5 ^s
Trial Summary	Negative
Positive Control ²	2106 ± 49.7
Positive Control ³	
Positive Control ⁶	

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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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

** END OF REPORT **