

Experiment Number: 761374

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Glutaraldehyde

CAS Number: 111-30-8

Date Report Requested: 09/17/2018

Time Report Requested: 15:53:58

NTP Study Number:

761374

Study Result:

Weakly Positive

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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	120 ± 6.9	116 ± 8.6	148 ± 4.4	122 ± 1.2	124 ± 10.4
3.3	133 ± 1.7	134 ± 3.8	134 ± 2.4		126 ± 10.1
10.0	140 ± 9.8	130 ± 10.1	135 ± 8.7	135 ± 2.9	132 ± 4.4
20.0		159 ± 7.2			
33.0	192 ± 11.7	229 ± 8.4	178 ± 8.2	178 ± 13.3	124 ± 7.8
50.0		227 ± 23.6 ^s		218 ± 13.6	
75.0				219 ± 1.8	
100.0	70 ± 8.6 ^s		182 ± 12.8 ^s	147 ± 11.3 ^s	179 ± 5.5
150.0					
200.0					
333.0	Toxic		75 ± 7.5 ^s		Toxic
Trial Summary	Equivocal	Positive	Equivocal	Positive	Equivocal
Positive Control ²					1326 ± 58.7
Positive Control ³			972 ± 24.8	1262 ± 69.9	
Positive Control ⁴	1496 ± 14.6	1949 ± 20.1			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	76 ± 0.9
3.3	
10.0	81 ± 4.7
20.0	
33.0	88 ± 8.5
50.0	
75.0	
100.0	146 ± 9.8
150.0	163 ± 4.9 ^s
200.0	75 ± 2.9 ^s
333.0	
Trial Summary	Positive
Positive Control ²	1337 ± 47.2
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	19 ± 2.5	19 ± 4.6	11 ± 3.9	11 ± 2.2	12 ± 1.5
3.3	29 ± 1.9	19 ± 1.5	10 ± 0.7		10 ± 2.4
10.0	27 ± 2.3	17 ± 0.6	9 ± 1.2	12 ± 1.3	10 ± 1.5
20.0		23 ± 1.5			
33.0	22 ± 2.3	19 ± 1.3	9 ± 1.5	11 ± 1.8	9 ± 2.0
50.0		19 ± 3.0 ^s		11 ± 1.5	
75.0				13 ± 1.3	
100.0	Toxic		9 ± 0.7 ^s	13 ± 1.3	14 ± 1.9
150.0					
200.0					
333.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					170 ± 40.8
Positive Control ³			38 ± 6.1	71 ± 6.4	
Positive Control ⁴	1521 ± 10.7	1467 ± 30.2			

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Test Compound: Glutaraldehyde

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 0.3
3.3	
10.0	10 ± 0.9
20.0	
33.0	13 ± 2.0
50.0	
75.0	
100.0	11 ± 0.9
150.0	10 ± 2.1
200.0	9 ± 1.7 ^s
333.0	
Trial Summary	Negative
Positive Control ²	123 ± 17.7
Positive Control ³	
Positive Control ⁴	

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Test Type: Genetic Toxicology - Bacterial
Mutagenicity**G06: Ames Summary Data**

Test Compound: Glutaraldehyde

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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	9 ± 0.9	9 ± 2.0	7 ± 1.0	10 ± 1.9	8 ± 1.2
3.3	8 ± 1.2	6 ± 0.0	7 ± 0.3		8 ± 1.9
10.0	11 ± 2.5	7 ± 1.2	8 ± 1.3	8 ± 2.3	9 ± 2.3
20.0		11 ± 0.7			
33.0	10 ± 1.2	11 ± 0.9	11 ± 1.9	11 ± 0.9	8 ± 1.5
50.0		9 ± 2.0		9 ± 1.5	
75.0				8 ± 1.8	
100.0	Toxic		8 ± 1.2	15 ± 3.2	9 ± 1.0
150.0					
200.0					
333.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					71 ± 6.1
Positive Control ³			34 ± 8.1	125 ± 9.8	
Positive Control ⁵	509 ± 84.3	447 ± 21.4			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 0.3
3.3	
10.0	10 ± 1.2
20.0	
33.0	9 ± 1.7
50.0	
75.0	
100.0	11 ± 1.7
150.0	15 ± 3.3
200.0	9 ± 0.9 ^s
333.0	
Trial Summary	Negative
Positive Control ²	129 ± 1.5
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	25 ± 5.7	27 ± 5.6	27 ± 1.9	32 ± 3.2	28 ± 2.5
3.3	22 ± 0.7	28 ± 2.7	23 ± 1.5		19 ± 2.1
10.0	25 ± 1.5	32 ± 2.1	24 ± 1.2	28 ± 2.5	23 ± 4.3
20.0		30 ± 3.6			
33.0	32 ± 3.3 ^s	37 ± 7.4	34 ± 5.2	38 ± 2.7	26 ± 2.8
50.0		38 ± 4.1		42 ± 4.0	
75.0				54 ± 4.6	
100.0	Toxic		35 ± 0.9 ^s	36 ± 3.8 ^s	27 ± 2.5
150.0					
200.0					
333.0	Toxic		Toxic		16 ± 2.1 ^s
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²					1121 ± 62.3
Positive Control ³			469 ± 32.3	1007 ± 55.1	
Positive Control ⁶	2245 ± 98.6	1434 ± 19.3			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	32 ± 2.8
3.3	
10.0	30 ± 4.6
20.0	
33.0	28 ± 3.2
50.0	
75.0	
100.0	28 ± 3.7
150.0	44 ± 3.0
200.0	32 ± 1.5 ^s
333.0	
Trial Summary	Equivocal
Positive Control ²	1093 ± 20.9
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: Water

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 ****