

Experiment Number: 684635

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Glutaraldehyde

CAS Number: 111-30-8

Date Report Requested: 09/13/2018

Time Report Requested: 01:23:25

NTP Study Number:

684635

Study Result:

Equivocal

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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	92 ± 2.8	98 ± 2.6	85 ± 2.7	111 ± 9.1	117 ± 20.8
10.0		91 ± 3.6		175 ± 10.0	
33.0	99 ± 2.7	93 ± 0.6	95 ± 2.6	137 ± 12.5	101 ± 12.0
100.0	96 ± 8.5	93 ± 6.2	114 ± 7.1	163 ± 6.6	98 ± 2.8
333.0	99 ± 6.4	87 ± 5.0	133 ± 8.7	Toxic	130 ± 12.0
1000.0	Toxic	95 ± 3.5	65 ± 9.5	3 ± 3.3	Toxic
3333.0	0 ± 0.0		0 ± 0.0		0 ± 0.0
Trial Summary	Negative	Negative	Equivocal	Equivocal	Negative
Positive Control ²			2363 ± 61.5	1230 ± 27.7	2397 ± 104.0
Positive Control ³	307 ± 18.1	394 ± 78.3			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	113 ± 6.4
10.0	116 ± 0.3
33.0	114 ± 6.9
100.0	160 ± 17.0
333.0	Toxic
1000.0	4 ± 4.0
3333.0	
Trial Summary	Negative
Positive Control ²	2104 ± 81.4
Positive Control ³	

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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	10 ± 2.0	5 ± 1.2	10 ± 1.0	3 ± 0.3	9 ± 2.0
10.0		7 ± 0.6		3 ± 1.2	
33.0	8 ± 2.7	6 ± 0.6	10 ± 1.3	8 ± 0.7	7 ± 0.3
100.0	9 ± 1.9	2 ± 0.3	10 ± 1.8	3 ± 0.6	7 ± 1.0
333.0	8 ± 1.7	2 ± 0.3	7 ± 0.3	3 ± 0.6	9 ± 2.5
1000.0	5 ± 1.5	0 ± 0.3	4 ± 0.3	3 ± 1.5	4 ± 1.2
3333.0	0 ± 0.0		0 ± 0.0		0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			37 ± 8.4	42 ± 4.3	39 ± 8.1
Positive Control ³	97 ± 46.8	310 ± 33.8			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 0.6
10.0	9 ± 1.5
33.0	9 ± 0.3
100.0	6 ± 0.9
333.0	5 ± 1.2
1000.0	2 ± 1.7
3333.0	
Trial Summary	Negative
Positive Control ²	41 ± 3.8
Positive Control ³	

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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	4 ± 1.2	3 ± 1.2	8 ± 1.9	8 ± 1.8	6 ± 2.6
10.0		4 ± 0.9		5 ± 0.9	
33.0	2 ± 1.2	2 ± 0.3	7 ± 1.2	8 ± 1.2	7 ± 0.3
100.0	4 ± 0.9	2 ± 0.3	12 ± 2.3	5 ± 0.7	7 ± 2.4
333.0	4 ± 1.2	1 ± 0.3	10 ± 1.2	1 ± 0.6	6 ± 2.1
1000.0	1 ± 0.7	0 ± 0.3	8 ± 0.9	0 ± 0.3	5 ± 0.9
3333.0	0 ± 0.0		0 ± 0.0		0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			210 ± 58.3	72 ± 8.7	141 ± 4.4
Positive Control ⁴	148 ± 19.5	72 ± 38.0			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.5
10.0	7 ± 2.0
33.0	6 ± 0.3
100.0	3 ± 1.2
333.0	2 ± 0.9
1000.0	1 ± 0.6
3333.0	
Trial Summary	Negative
Positive Control ²	163 ± 27.8
Positive Control ⁴	

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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	12 ± 1.2	11 ± 0.9	26 ± 1.9	17 ± 1.9	24 ± 1.5
10.0		13 ± 1.9		17 ± 4.1	
33.0	14 ± 1.5	10 ± 0.3	27 ± 2.7	26 ± 2.7	23 ± 3.2
100.0	14 ± 1.5	7 ± 3.8	37 ± 11.3	13 ± 1.2	31 ± 5.5
333.0	15 ± 1.7	4 ± 1.2	43 ± 9.0	18 ± 1.5	33 ± 2.9
1000.0	8 ± 1.2	5 ± 1.5	Toxic	18 ± 0.6	19 ± 7.5
3333.0	0 ± 0.0		0 ± 0.0		0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			2141 ± 79.2	561 ± 12.0	1775 ± 121.2
Positive Control ⁵	118 ± 11.8	150 ± 24.2			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	21 ± 3.0
10.0	25 ± 1.8
33.0	22 ± 1.8
100.0	22 ± 5.0
333.0	20 ± 2.1
1000.0	17 ± 2.7
3333.0	
Trial Summary	Negative
Positive Control ²	1590 ± 52.8
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: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****