

Experiment Number: 780474

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Chloral hydrate

CAS Number: 302-17-0

Date Report Requested: 09/18/2018

Time Report Requested: 01:20:32

NTP Study Number:

780474

Study Result:

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	134 ± 7.4	125 ± 8.7	126 ± 5.8	142 ± 5.5	139 ± 2.4
100.0	141 ± 3.9	163 ± 6.6	149 ± 4.4	159 ± 2.3	161 ± 1.3
333.0	197 ± 16.3		200 ± 11.8		255 ± 7.6
1000.0	306 ± 6.0	297 ± 1.2	327 ± 4.2	306 ± 3.5	366 ± 17.5
3333.0	423 ± 17.1	422 ± 12.7	494 ± 9.0	495 ± 3.4	530 ± 8.2
4000.0		456 ± 5.6			
5000.0		501 ± 0.8		565 ± 12.9	
6667.0	468 ± 17.4				
7500.0		518 ± 7.2			
10000.0			704 ± 66.8	650 ± 8.6	689 ± 37.8
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					1431 ± 42.4
Positive Control ³			1485 ± 83.6	1612 ± 23.0	
Positive Control ⁴	1894 ± 86.8	2025 ± 20.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	125 ± 5.8
100.0	153 ± 3.9
333.0	
1000.0	351 ± 19.3
3333.0	524 ± 20.0
4000.0	
5000.0	584 ± 22.5
6667.0	
7500.0	
10000.0	632 ± 12.8
Trial Summary	Positive
Positive Control ²	2068 ± 92.8
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	17 ± 3.2	10 ± 3.1	12 ± 5.2
100.0	19 ± 0.6	15 ± 4.6	10 ± 2.0
333.0	19 ± 1.7	7 ± 0.9	14 ± 0.7
1000.0	18 ± 1.5	11 ± 1.0	12 ± 0.7
3333.0	15 ± 1.2	15 ± 1.0	13 ± 0.9
6667.0	13 ± 2.9		
10000.0		11 ± 1.5	9 ± 0.6
Trial Summary	Negative	Negative	Negative
Positive Control ²			126 ± 9.6
Positive Control ³		109 ± 4.0	
Positive Control ⁴	1156 ± 37.8		

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.2	6 ± 1.5	7 ± 1.5
100.0	9 ± 2.5	8 ± 0.9	7 ± 1.3
333.0	5 ± 0.6	7 ± 1.2	5 ± 1.2
1000.0	11 ± 1.8	7 ± 0.6	6 ± 0.6
3333.0	11 ± 1.8	5 ± 0.7	9 ± 1.3
6667.0	12 ± 2.9		
10000.0		5 ± 0.9	4 ± 0.3
Trial Summary	Negative	Negative	Negative
Positive Control ²			133 ± 4.0
Positive Control ³		124 ± 12.8	
Positive Control ⁵	478 ± 54.9		

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Test Compound: Chloral hydrate

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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	21 ± 2.0	22 ± 3.7	30 ± 0.9	37 ± 4.7	29 ± 2.0
100.0	20 ± 4.9	21 ± 2.3	29 ± 2.9	29 ± 1.5	24 ± 2.3
333.0	21 ± 0.7		31 ± 3.6		33 ± 1.5
1000.0	31 ± 0.3	27 ± 2.5	30 ± 1.2	38 ± 4.7	28 ± 5.0
3333.0	46 ± 5.6	42 ± 4.0	39 ± 0.6	45 ± 3.7	42 ± 5.2
4000.0		43 ± 1.5			
5000.0		41 ± 3.1		46 ± 1.5	
6667.0	39 ± 4.1				
7500.0		27 ± 6.9 ^s			
10000.0			31 ± 2.3	38 ± 1.7	27 ± 4.6
Trial Summary	Equivocal	Equivocal	Negative	Negative	Negative
Positive Control ²					1345 ± 157.3
Positive Control ³			1245 ± 89.2	1476 ± 27.3	
Positive Control ⁶	1526 ± 14.2	1738 ± 33.8			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	31 ± 3.2
100.0	26 ± 1.7
333.0	
1000.0	32 ± 2.3
3333.0	43 ± 0.6
4000.0	
5000.0	45 ± 1.3
6667.0	
7500.0	
10000.0	43 ± 2.8
Trial Summary	Equivocal
Positive Control ²	1775 ± 14.9
Positive Control ³	
Positive Control ⁶	

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Test Compound: **Chloral hydrate**

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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 ****