

Experiment Number: 712321

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

G06: Ames Summary Data

Test Compound: **Dichloroacetonitrile**

CAS Number: **3018-12-0**

Date Report Requested: **09/12/2018**

Time Report Requested: **13:45:22**

NTP Study Number:

712321

Study Result:

Positive

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Mutagenicity**G06: Ames Summary Data**Test Compound: Dichloroacetonitrile
CAS Number: 3018-12-0

Date Report Requested: 09/12/2018

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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	154 ± 5.7	144 ± 3.2	146 ± 9.8	129 ± 9.1	138 ± 7.0
33.0	158 ± 14.2	150 ± 14.5	202 ± 10.4	153 ± 13.6	253 ± 9.3
100.0	171 ± 8.7	169 ± 4.6	240 ± 7.0	183 ± 11.9	294 ± 14.5
333.0	251 ± 7.3	240 ± 9.9	392 ± 23.2	332 ± 22.1	424 ± 29.0
1000.0	369 ± 23.3	337 ± 14.5	522 ± 15.8	451 ± 8.5	559 ± 15.7
3333.0	0 ± 0.0 ^s	94 ± 28.4	283 ± 146.7	284 ± 34.7	182 ± 58.6
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			650 ± 26.8	783 ± 47.7	1405 ± 54.5
Positive Control ³	301 ± 3.1	407 ± 29.7			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	132 ± 7.7
33.0	146 ± 8.3
100.0	185 ± 18.6
333.0	267 ± 33.0
1000.0	361 ± 21.9
3333.0	273 ± 27.2
Trial Summary	Positive
Positive Control ²	1711 ± 71.5
Positive Control ³	

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Test Compound: Dichloroacetonitrile

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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	27 ± 1.8	35 ± 5.7	7 ± 0.0	15 ± 1.2	12 ± 1.8
33.0	34 ± 2.0	45 ± 8.8	30 ± 1.2	38 ± 3.2	29 ± 2.6
100.0	59 ± 2.8	52 ± 4.3	51 ± 7.4	58 ± 2.9	36 ± 4.5
333.0	102 ± 25.7	93 ± 1.8	113 ± 8.3	124 ± 8.2	93 ± 9.3
1000.0	125 ± 11.1	155 ± 15.1	229 ± 30.0	248 ± 13.7	172 ± 34.2
3333.0	7 ± 7.0 ^s	33 ± 17.6	178 ± 24.2	201 ± 2.9	106 ± 4.7
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ³	290 ± 6.5	359 ± 3.6			
Positive Control ⁴			167 ± 7.9	230 ± 11.1	361 ± 14.7

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.0
33.0	24 ± 2.5
100.0	48 ± 1.7
333.0	107 ± 5.0
1000.0	187 ± 7.5
3333.0	74 ± 22.4
Trial Summary	Positive
Positive Control ³	
Positive Control ⁴	430 ± 11.0

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G06: Ames Summary Data

Test Compound: Dichloroacetonitrile

CAS Number: 3018-12-0

Date Report Requested: 09/12/2018

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 0.9	12 ± 3.6	7 ± 0.6
33.0	8 ± 3.2	14 ± 4.2	10 ± 2.0
100.0	7 ± 0.3	13 ± 2.7	14 ± 3.1
333.0	9 ± 2.3	14 ± 3.1	7 ± 1.2
1000.0	15 ± 0.9	15 ± 1.5	12 ± 3.5
3333.0	0 ± 0.0 ^s	9 ± 3.2	7 ± 1.5
Trial Summary	Negative	Negative	Negative
Positive Control ⁴		184 ± 20.9	546 ± 9.9
Positive Control ⁵	226 ± 29.6		

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

Test Compound: Dichloroacetonitrile

CAS Number: 3018-12-0

Date Report Requested: 09/12/2018

Time Report Requested: 13:45:22

Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	23 ± 2.3	33 ± 2.0	29 ± 2.6	36 ± 2.0
33.0	25 ± 3.5	36 ± 2.7	28 ± 2.3	37 ± 0.3
100.0	17 ± 2.5	26 ± 0.7	25 ± 2.4	43 ± 1.3
333.0	26 ± 3.5	41 ± 5.8	25 ± 6.5	44 ± 3.5
1000.0	28 ± 4.4	48 ± 2.3	24 ± 2.3	52 ± 0.6
3333.0	0 ± 0.0 ^s	16 ± 8.0	15 ± 5.4	21 ± 4.0
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²		456 ± 22.4	642 ± 35.6	1211 ± 47.4
Positive Control ⁶	693 ± 35.3			

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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: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****