

Experiment Number: 511666

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

G06: Ames Summary Data

Test Compound: **Dimethylcyanamide**

CAS Number: **1467-79-4**

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

Time Report Requested: **11:20:19**

NTP Study Number:

511666

Study Result:

Negative

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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	84 ± 2.3	102 ± 5.3	115 ± 8.2	111 ± 8.1	112 ± 1.7
100.0	91 ± 1.0	118 ± 12.4	107 ± 14.7	108 ± 5.3	87 ± 1.0
333.3	91 ± 5.3	101 ± 0.3	102 ± 11.9	101 ± 1.2	81 ± 2.3
1000.0	86 ± 9.5	100 ± 6.2	104 ± 9.9	111 ± 7.3	93 ± 9.6
3333.3	83 ± 7.3	99 ± 2.8	103 ± 0.7	109 ± 8.8	86 ± 6.4
10000.0	81 ± 3.5	87 ± 5.5	110 ± 18.5	102 ± 6.5	74 ± 5.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	519 ± 14.7	526 ± 12.0			
Positive Control ³			593 ± 4.4	627 ± 18.2	1006 ± 58.0

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	108 ± 9.7
100.0	113 ± 11.9
333.3	115 ± 1.9
1000.0	105 ± 8.3
3333.3	116 ± 11.1
10000.0	115 ± 15.8
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1278 ± 34.7

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Test Compound: Dimethylcyanamide

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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	20 ± 2.6	25 ± 3.1	9 ± 2.9	9 ± 0.3	13 ± 2.0
100.0	19 ± 1.0	16 ± 0.3	10 ± 2.1	15 ± 4.0	6 ± 1.7
333.3	21 ± 4.0	22 ± 2.7	10 ± 1.9	11 ± 2.3	13 ± 1.0
1000.0	22 ± 4.1	16 ± 3.6	12 ± 1.7	11 ± 1.2	11 ± 1.2
3333.3	24 ± 1.5	20 ± 1.3	10 ± 2.1	12 ± 3.5	6 ± 1.8
10000.0	23 ± 6.9	24 ± 3.7	14 ± 5.5	9 ± 2.7	16 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	512 ± 18.9	444 ± 17.0			
Positive Control ⁴			311 ± 6.4	374 ± 12.8	400 ± 19.3

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Date Report Requested: 09/12/2018
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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 0.7
100.0	8 ± 3.2
333.3	13 ± 2.2
1000.0	11 ± 3.3
3333.3	7 ± 0.9
10000.0	8 ± 2.3
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	300 ± 6.3

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Test Compound: Dimethylcyanamide

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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	8 ± 1.0	16 ± 1.5	13 ± 3.2	24 ± 4.3	15 ± 1.2
100.0	8 ± 1.5	18 ± 0.7	13 ± 2.3	29 ± 4.0	17 ± 0.7
333.3	5 ± 1.0	19 ± 3.7	8 ± 0.7	35 ± 5.9	16 ± 1.8
1000.0	6 ± 2.0	18 ± 2.4	7 ± 0.9	25 ± 5.8	17 ± 1.5
3333.3	9 ± 2.0	20 ± 3.2	11 ± 1.2	20 ± 2.3	13 ± 2.3
10000.0	8 ± 1.5	11 ± 2.6	10 ± 2.3	26 ± 0.9	15 ± 3.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			493 ± 132.1	238 ± 45.9	376 ± 12.0
Positive Control ⁵	119 ± 22.5	166 ± 5.6			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	41 ± 0.9
100.0	15 ± 2.2
333.3	17 ± 4.5
1000.0	20 ± 3.5
3333.3	15 ± 0.9
10000.0	12 ± 2.5
Trial Summary	Negative
Positive Control ⁴	635 ± 17.2
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	23 ± 2.3	46 ± 2.4	34 ± 3.1	60 ± 5.0	29 ± 0.6
100.0	31 ± 3.0	19 ± 3.2	30 ± 5.9	57 ± 6.7	21 ± 2.9
333.3	25 ± 4.0	24 ± 6.2	38 ± 9.5	51 ± 6.3	26 ± 3.8
1000.0	28 ± 1.7	21 ± 3.6	36 ± 6.0	53 ± 4.4	32 ± 0.9
3333.3	17 ± 0.6	18 ± 3.4	23 ± 2.9	47 ± 4.5	28 ± 2.2
10000.0	17 ± 2.2	20 ± 1.9	20 ± 2.6	52 ± 4.9	29 ± 3.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			798 ± 62.0	509 ± 20.5	1496 ± 106.4
Positive Control ⁶	685 ± 17.8	850 ± 18.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	53 ± 3.4
100.0	34 ± 2.7
333.3	28 ± 3.4
1000.0	31 ± 4.3
3333.3	33 ± 5.8
10000.0	31 ± 4.3
Trial Summary	Negative
Positive Control ³	1170 ± 9.5
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: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

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

**** END OF REPORT ****