

Experiment Number: 392001

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

G06: Ames Summary Data

Test Compound: **Dimethylcyanamide**

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

Date Report Requested: **09/14/2018**

Time Report Requested: **10:30:20**

NTP Study Number:

392001

Study Result:

Negative

Experiment Number: 392001

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity****G06: Ames Summary Data**Test Compound: **Dimethylcyanamide**CAS Number: **1467-79-4**Date Report Requested: **09/14/2018**Time Report Requested: **10:30:20****Strain: TA100**

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	87 ± 4.8	102 ± 5.6	110 ± 6.1	83 ± 5.2	106 ± 5.2
100.0	96 ± 19.2	97 ± 6.1	115 ± 8.2	90 ± 4.7	105 ± 5.5
333.3	96 ± 15.1	95 ± 3.9	130 ± 5.1	81 ± 8.0	112 ± 7.5
1000.0	115 ± 7.3	99 ± 4.7	118 ± 11.5	83 ± 6.8	94 ± 18.7
3333.3	111 ± 16.7	91 ± 4.8	125 ± 4.5	77 ± 5.0	84 ± 5.8
10000.0	89 ± 3.8	94 ± 1.7	108 ± 1.7	85 ± 8.1	83 ± 2.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					2505 ± 109.0
Positive Control ³			1739 ± 64.7	1211 ± 97.6	
Positive Control ⁴	1515 ± 65.1	1367 ± 28.8			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	91 ± 3.8
100.0	97 ± 6.5
333.3	96 ± 5.5
1000.0	87 ± 7.8
3333.3	101 ± 3.8
10000.0	80 ± 9.3
Trial Summary	Negative
Positive Control ²	2865 ± 94.0
Positive Control ³	
Positive Control ⁴	

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Test Type: **Genetic Toxicology - Bacterial
Mutagenicity****G06: Ames Summary Data**Test Compound: **Dimethylcyanamide**CAS Number: **1467-79-4**Date Report Requested: **09/14/2018**Time Report Requested: **10:30:20****Strain: TA1535**

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	17 ± 0.6	22 ± 1.5	15 ± 1.5	6 ± 0.3	9 ± 3.2
100.0	15 ± 2.0	25 ± 1.5	10 ± 2.0	12 ± 1.2	8 ± 0.9
333.3	14 ± 1.2	21 ± 2.1	9 ± 1.5	11 ± 1.5	13 ± 0.3
1000.0	15 ± 3.5	18 ± 2.3	9 ± 3.0	9 ± 2.2	8 ± 0.6
3333.3	13 ± 1.2	26 ± 1.8	7 ± 0.3	9 ± 2.2	7 ± 2.0
10000.0	10 ± 2.0	19 ± 1.7	7 ± 2.6	10 ± 1.0	10 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					139 ± 10.1
Positive Control ³			72 ± 9.4	60 ± 3.5	
Positive Control ⁴	1062 ± 4.2	1063 ± 50.0			

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Test Compound: **Dimethylcyanamide**

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

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 0.9
100.0	11 ± 2.0
333.3	7 ± 1.5
1000.0	9 ± 0.3
3333.3	13 ± 2.0
10000.0	13 ± 1.3
Trial Summary	Negative
Positive Control ²	162 ± 5.2
Positive Control ³	
Positive Control ⁴	

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Test Type: **Genetic Toxicology - Bacterial
Mutagenicity****G06: Ames Summary Data**Test Compound: **Dimethylcyanamide**CAS Number: **1467-79-4**Date Report Requested: **09/14/2018**Time Report Requested: **10:30:20****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 ± 0.3	7 ± 0.0	5 ± 1.3	11 ± 2.5	10 ± 1.0
100.0	6 ± 1.7	7 ± 1.9	6 ± 0.3	12 ± 1.8	6 ± 0.7
333.3	6 ± 0.3	6 ± 1.2	6 ± 2.2	12 ± 1.2	9 ± 1.2
1000.0	5 ± 1.0	8 ± 1.5	8 ± 1.2	10 ± 0.6	8 ± 1.0
3333.3	5 ± 1.7	7 ± 0.7	6 ± 1.2	6 ± 2.0	9 ± 1.2
10000.0	4 ± 1.2	10 ± 1.5	5 ± 0.0	7 ± 0.9	7 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					199 ± 22.4
Positive Control ³			76 ± 11.2	148 ± 7.5	
Positive Control ⁵	253 ± 18.2	110 ± 17.3			

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Test Compound: **Dimethylcyanamide**

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

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.5
100.0	5 ± 1.5
333.3	7 ± 1.8
1000.0	8 ± 1.8
3333.3	7 ± 1.9
10000.0	4 ± 1.5
Trial Summary	Negative
Positive Control ²	317 ± 25.5
Positive Control ³	
Positive Control ⁵	

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Mutagenicity****G06: Ames Summary Data**Test Compound: **Dimethylcyanamide**CAS Number: **1467-79-4**Date Report Requested: **09/14/2018**Time Report Requested: **10:30:20****Strain: TA98**

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	19 ± 2.4	13 ± 2.0	22 ± 2.6	20 ± 2.0	26 ± 3.2
100.0	23 ± 2.2	17 ± 1.2	18 ± 1.7	23 ± 1.5	22 ± 2.9
333.3	14 ± 3.3	17 ± 2.2	29 ± 5.0	30 ± 4.1	28 ± 3.8
1000.0	21 ± 3.3	15 ± 2.3	28 ± 4.0	25 ± 1.2	29 ± 3.4
3333.3	17 ± 0.6	13 ± 3.7	20 ± 1.5	23 ± 0.7	26 ± 1.8
10000.0	10 ± 2.8	13 ± 2.4	23 ± 2.3	25 ± 1.2	27 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					2222 ± 20.6
Positive Control ³			1235 ± 103.4	1332 ± 111.1	
Positive Control ⁶	1704 ± 72.8	1208 ± 89.6			

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Test Compound: **Dimethylcyanamide**

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

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	27 ± 4.2
100.0	27 ± 1.2
333.3	22 ± 1.5
1000.0	29 ± 4.9
3333.3	22 ± 3.0
10000.0	22 ± 1.0
Trial Summary	Negative
Positive Control ²	2389 ± 188.7
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

**** END OF REPORT ****