

Experiment Number: 926215

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Methacrylonitrile

CAS Number: 126-98-7

Date Report Requested: 09/17/2018

Time Report Requested: 07:21:56

NTP Study Number:

926215

Study Result:

Negative

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Test Compound: Methacrylonitrile

CAS Number: 126-98-7

Date Report Requested: 09/17/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	127 ± 0.9	83 ± 6.6	132 ± 2.6	82 ± 8.3	202 ± 7.3
100.0	173 ± 2.9	82 ± 3.5	151 ± 17.9	94 ± 2.3	200 ± 11.2
333.0	166 ± 4.5	92 ± 2.0	126 ± 5.9	123 ± 16.3	183 ± 7.5
1000.0	158 ± 4.5	72 ± 0.0	160 ± 3.2	109 ± 4.6	194 ± 6.9
3333.0	158 ± 9.4	81 ± 4.6	150 ± 15.5	115 ± 9.3	223 ± 16.9
10000.0	126 ± 9.3	Toxic	145 ± 16.2	123 ± 4.7	196 ± 18.8
Trial Summary	Equivocal	Negative	Negative	Equivocal	Negative
Positive Control ²			2952 ± 72.8	635 ± 27.7	1539 ± 143.6
Positive Control ³	1322 ± 11.1	910 ± 28.7			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	147 ± 17.1	116 ± 21.4	226 ± 29.5
100.0	130 ± 12.4	109 ± 3.5	175 ± 3.5
333.0	158 ± 7.4	140 ± 13.5	226 ± 5.4
1000.0	164 ± 12.8	122 ± 15.4	200 ± 6.5
3333.0	165 ± 11.2	152 ± 6.2	236 ± 16.8
10000.0	173 ± 16.3	128 ± 8.7	211 ± 12.9
Trial Summary	Negative	Equivocal	Negative
Positive Control ²	2165 ± 35.1	2419 ± 125.4	2288 ± 2.7
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	16 ± 0.9	10 ± 2.0	14 ± 0.6	11 ± 1.7	14 ± 2.8
100.0	16 ± 0.6	11 ± 2.9	11 ± 2.9	11 ± 0.6	13 ± 2.1
333.0	13 ± 1.8	5 ± 1.2	20 ± 2.4	7 ± 0.3	16 ± 2.0
1000.0	16 ± 0.9	5 ± 0.3	13 ± 1.3	6 ± 1.2	9 ± 2.0
3333.0	13 ± 4.3	7 ± 1.2	16 ± 1.9	5 ± 2.2	16 ± 1.2
10000.0	15 ± 0.6	6 ± 0.7	15 ± 2.3	7 ± 1.0	16 ± 3.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			354 ± 19.2	188 ± 7.5	280 ± 45.7
Positive Control ³	834 ± 45.0	874 ± 44.9			

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Test Compound: Methacrylonitrile
CAS Number: 126-98-7

Date Report Requested: 09/17/2018
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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 0.7
100.0	11 ± 1.2
333.0	9 ± 1.7
1000.0	6 ± 1.5
3333.0	6 ± 0.3
10000.0	10 ± 2.3
Trial Summary	Negative
Positive Control ⁴	65 ± 11.1
Positive Control ³	

Experiment Number: 926215

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

Test Compound: Methacrylonitrile

CAS Number: 126-98-7

Date Report Requested: 09/17/2018

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	7 ± 1.5	10 ± 0.9	14 ± 1.0	10 ± 2.3	10 ± 1.8
100.0	9 ± 1.2	6 ± 2.3	17 ± 3.2	21 ± 2.6	11 ± 2.0
333.0	8 ± 1.2	5 ± 1.2	15 ± 1.0	11 ± 1.0	16 ± 2.0
1000.0	7 ± 0.7	6 ± 1.2	17 ± 4.0	11 ± 1.2	10 ± 2.0
3333.0	8 ± 0.9	6 ± 1.7	18 ± 2.7	10 ± 2.3	12 ± 0.3
10000.0	9 ± 1.5	2 ± 0.9	23 ± 1.5	13 ± 0.7	13 ± 1.5
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ⁴			75 ± 20.2	191 ± 12.9	198 ± 20.2
Positive Control ⁵	195 ± 29.3	813 ± 65.0			

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Test Compound: Methacrylonitrile

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Strain: TA1537

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	9 ± 2.5	18 ± 2.0	9 ± 0.7	9 ± 0.9
100.0	9 ± 3.3	11 ± 2.4	10 ± 2.1	9 ± 0.9
333.0	8 ± 1.2	13 ± 0.0	9 ± 0.3	11 ± 0.9
1000.0	8 ± 1.5	17 ± 3.7	11 ± 2.0	11 ± 2.3
3333.0	8 ± 0.9	20 ± 0.9	12 ± 1.2	13 ± 1.5
10000.0	Toxic	12 ± 0.3	5 ± 0.7	13 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁴	37 ± 2.3	135 ± 17.8	98 ± 27.4	119 ± 9.7
Positive Control ⁵				

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Test Compound: Methacrylonitrile

CAS Number: 126-98-7

Date Report Requested: 09/17/2018

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	35 ± 5.8	13 ± 1.2	28 ± 3.2	17 ± 4.4	17 ± 2.9
100.0	23 ± 2.3	13 ± 2.0	27 ± 1.5	18 ± 3.6	16 ± 0.9
333.0	29 ± 6.7	16 ± 2.1	37 ± 5.1	19 ± 4.2	20 ± 1.2
1000.0	23 ± 2.4	11 ± 1.0	27 ± 4.4	17 ± 0.9	27 ± 6.4
3333.0	28 ± 1.7	9 ± 0.3	35 ± 5.2	14 ± 1.0	19 ± 0.7
10000.0	23 ± 3.3	10 ± 3.2	36 ± 3.2	20 ± 1.7	22 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1537 ± 48.4	482 ± 42.2	737 ± 160.2
Positive Control ⁶	212 ± 4.1	183 ± 43.5			

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G06: Ames Summary Data

Test Compound: Methacrylonitrile

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	31 ± 4.4	12 ± 2.1	26 ± 0.3
100.0	37 ± 1.9	17 ± 3.2	35 ± 2.5
333.0	34 ± 5.8	18 ± 3.5	33 ± 6.9
1000.0	32 ± 8.0	22 ± 3.2	29 ± 5.5
3333.0	29 ± 4.8	19 ± 4.9	26 ± 2.4
10000.0	29 ± 0.7	13 ± 1.5	21 ± 3.5
Trial Summary	Negative	Equivocal	Negative
Positive Control ²	962 ± 54.6	1003 ± 55.2	1632 ± 32.0
Positive Control ⁶			

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Test Type: **Genetic Toxicology - Bacterial
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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: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****