

Experiment Number: 829178

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1-Aziridineethanol

CAS Number: 1072-52-2

Date Report Requested: 09/15/2018

Time Report Requested: 19:08:30

NTP Study Number:

829178

Study Result:

Positive

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Test Compound: 1-Aziridineethanol
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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	98 ± 2.7	107 ± 2.4	104 ± 4.1	92 ± 5.0	138 ± 8.1
1.0		137 ± 7.7		182 ± 9.3	
3.3		247 ± 13.0		302 ± 16.9	
10.0		448 ± 36.6		542 ± 19.2	
33.3		697 ± 3.3		923 ± 12.0	
100.0	1223 ± 40.7	913 ± 17.6	987 ± 48.8	1180 ± 11.5	1185 ± 20.7
333.3	1735 ± 29.2		1318 ± 45.5		1282 ± 72.7
1000.0	1990 ± 25.0		1432 ± 116.0		1623 ± 41.4
3333.3	2138 ± 31.6		1008 ± 22.2		1400 ± 26.4
10000.0	1224 ± 274.2		Toxic		628 ± 24.1
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			1545 ± 54.0	803 ± 29.1	2062 ± 75.0
Positive Control ³	328 ± 33.9	500 ± 5.8			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	57 ± 2.0
1.0	173 ± 6.0
3.3	310 ± 8.7
10.0	540 ± 26.5
33.3	913 ± 44.1
100.0	1237 ± 44.8
333.3	
1000.0	
3333.3	
10000.0	
Trial Summary	Positive
Positive Control ²	1195 ± 72.8
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	12 ± 2.7	16 ± 1.9	8 ± 0.7	7 ± 0.3	9 ± 2.0
1.0		54 ± 1.5		76 ± 2.1	
3.3		168 ± 9.3		233 ± 14.5	
10.0		363 ± 11.7		537 ± 32.8	
33.3		703 ± 31.8		967 ± 17.6	
100.0	1316 ± 62.5	1020 ± 23.1	1302 ± 47.2	1287 ± 27.3	1386 ± 36.4
333.3	1712 ± 22.5		1478 ± 25.7		1544 ± 25.9
1000.0	1905 ± 15.1		1618 ± 49.0		1663 ± 24.2
3333.3	1969 ± 26.4		1439 ± 52.6		1650 ± 58.3
10000.0	1935 ± 31.1		Toxic		1203 ± 583.0
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ³	352 ± 4.8				
Positive Control ⁴		278 ± 13.0			
Positive Control ⁵			274 ± 33.4	103 ± 21.5	385 ± 22.7

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	4 ± 0.3
1.0	69 ± 6.2
3.3	229 ± 22.4
10.0	503 ± 14.5
33.3	940 ± 23.1
100.0	1275 ± 16.1
333.3	
1000.0	
3333.3	
10000.0	
Trial Summary	Positive
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	125 ± 9.0

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

Test Compound: 1-Aziridineethanol

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	17 ± 2.3	4 ± 1.2	2 ± 0.3	9 ± 2.9
100.0	20 ± 0.7	6 ± 0.7	8 ± 3.2	8 ± 0.6
333.3	19 ± 2.6	7 ± 0.6	6 ± 0.7	7 ± 1.5
1000.0	25 ± 3.5	5 ± 0.6	14 ± 0.9	13 ± 2.7
3333.3	45 ± 3.8	8 ± 0.9 ^s	13 ± 0.7	11 ± 1.3
10000.0	122 ± 31.8	7 ± 1.9 ^s	5 ± 0.9 ^s	Toxic
Trial Summary	Positive	Negative	Equivocal	Negative
Positive Control ⁵			91 ± 6.6	385 ± 9.5
Positive Control ⁶	156 ± 19.7	197 ± 18.6		

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Test Compound: 1-Aziridineethanol

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	25 ± 3.2	23 ± 3.1	28 ± 3.9
100.0	27 ± 7.8	24 ± 2.7	31 ± 6.4
333.3	32 ± 6.9	24 ± 5.5	35 ± 2.1
1000.0	37 ± 2.8	24 ± 6.2	31 ± 5.2
3333.3	33 ± 1.5	20 ± 8.2	41 ± 7.3
10000.0	42 ± 6.7 ^s	Toxic	Toxic
Trial Summary	Equivocal	Negative	Negative
Positive Control ²		885 ± 96.6	1361 ± 32.5
Positive Control ⁷	682 ± 33.7		

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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 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

7: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****