

Experiment Number: 279457

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

G06: Ames Summary Data

Test Compound: 1,5-Naphthalenediamine

CAS Number: 2243-62-1

Date Report Requested: 09/11/2018

Time Report Requested: 14:46:09

NTP Study Number:

279457

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	131 ± 17.8	143 ± 14.8	160 ± 0.5	173 ± 4.2	144 ± 5.0
10.0		180 ± 2.3		179 ± 9.0	
33.0	180 ± 4.8	185 ± 8.9	204 ± 10.7	202 ± 3.6	216 ± 12.0
100.0	205 ± 16.8	245 ± 11.2	250 ± 8.5	271 ± 10.4	314 ± 3.3
333.0	299 ± 9.7	262 ± 16.6	315 ± 15.2	276 ± 8.3	450 ± 15.8
1000.0	377 ± 5.3	351 ± 4.6	382 ± 6.4	322 ± 28.2	596 ± 11.1
3333.0	400 ± 42.1		371 ± 2.3		501 ± 14.1
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					832 ± 34.1
Positive Control ³			568 ± 22.5	620 ± 25.2	
Positive Control ⁴	1036 ± 10.2	1082 ± 40.9			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	141 ± 3.5
10.0	168 ± 16.5
33.0	238 ± 6.0
100.0	315 ± 2.5
333.0	480 ± 20.0
1000.0	531 ± 49.3
3333.0	
Trial Summary	Positive
Positive Control ²	900 ± 12.7
Positive Control ³	
Positive Control ⁴	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9
Vehicle Control ¹	31 ± 2.6	14 ± 0.3	30 ± 5.2	37 ± 0.7	36 ± 3.9
1.0				29 ± 4.8	35 ± 3.3
3.0				25 ± 2.6	44 ± 2.3
10.0		17 ± 2.3	33 ± 2.3	47 ± 2.0	46 ± 2.3
33.0	42 ± 4.2	20 ± 3.5	41 ± 1.2	43 ± 6.9	53 ± 0.6
100.0	36 ± 3.8	30 ± 1.8	47 ± 2.3	54 ± 6.1	64 ± 8.1
333.0	40 ± 0.9	40 ± 0.7	39 ± 3.8	67 ± 6.8	60 ± 4.3
1000.0	50 ± 3.5	45 ± 4.4	51 ± 1.8	67 ± 5.8	64 ± 12.1
3333.0	34 ± 0.3				
Trial Summary	Negative	Positive	Negative	Weakly Positive	Weakly Positive
Positive Control ²				504 ± 18.7	342 ± 6.4
Positive Control ⁵	432 ± 19.0	316 ± 14.3	676 ± 56.7		

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Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	39 ± 1.7	36 ± 2.3	48 ± 4.5	40 ± 5.3	42 ± 3.5
1.0			38 ± 8.0		
3.0			38 ± 4.0		
10.0		49 ± 2.9	42 ± 1.2		45 ± 4.5
33.0	50 ± 2.3	63 ± 0.9	55 ± 6.5	49 ± 6.0	60 ± 6.1
100.0	44 ± 3.2	49 ± 2.6	66 ± 5.5	72 ± 4.9	82 ± 14.7
333.0	66 ± 5.0	45 ± 2.4	82 ± 4.3	119 ± 5.0	130 ± 16.7
1000.0	68 ± 3.0	56 ± 4.4	60 ± 4.2	238 ± 11.0	170 ± 3.2
3333.0	68 ± 3.5			236 ± 7.1	
Trial Summary	Equivocal	Equivocal	Equivocal	Positive	Positive
Positive Control ²	155 ± 14.3	102 ± 7.6	143 ± 4.0	488 ± 24.9	525 ± 45.2
Positive Control ⁵					

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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: 2.5 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****