

Experiment Number: 478054

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: beta-Nitrostyrene

CAS Number: 102-96-5

Date Report Requested: 09/11/2018

Time Report Requested: 16:48:54

NTP Study Number:

478054

Study Result:

Weakly Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	95 ± 10.4	103 ± 5.8	94 ± 6.1	90 ± 2.0	113 ± 1.3
0.3	84 ± 0.6				
1.0	90 ± 3.1				
3.3	94 ± 6.7	104 ± 1.7	91 ± 10.8	93 ± 2.3	108 ± 6.4
10.0	100 ± 2.0	103 ± 3.1	99 ± 4.7	87 ± 9.6	95 ± 3.0
33.0	33 ± 9.6 ^s	100 ± 1.9	108 ± 4.1 ^s	100 ± 5.6	99 ± 6.8
100.0		109 ± 2.3	60 ± 19.4 ^s	153 ± 5.1	148 ± 6.2
333.0		108 ± 7.0	Toxic	171 ± 8.1 ^s	198 ± 6.6 ^s
500.0					
Trial Summary	Negative	Negative	Negative	Weakly Positive	Equivocal
Positive Control ²			906 ± 26.7		
Positive Control ³	475 ± 5.7				
Positive Control ⁴				470 ± 19.2	335 ± 11.2
Positive Control ⁵		310 ± 10.0			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	111 ± 6.7
0.3	
1.0	
3.3	
10.0	105 ± 10.4
33.0	99 ± 5.6
100.0	96 ± 5.3
333.0	191 ± 8.4
500.0	267 ± 8.8
Trial Summary	Positive
Positive Control ²	
Positive Control ³	
Positive Control ⁴	341 ± 22.0
Positive Control ⁵	

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	10 ± 1.7	11 ± 1.0
3.3	6 ± 1.0	10 ± 2.6
10.0	8 ± 0.7	12 ± 0.7
33.0	8 ± 1.7	12 ± 0.3
100.0	9 ± 1.5 ^s	14 ± 1.7
333.0	Toxic	13 ± 0.0 ^s
Trial Summary	Negative	Negative
Positive Control ²	37 ± 5.9	
Positive Control ⁴		117 ± 10.5

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	25 ± 1.3	27 ± 3.4	30 ± 3.1
0.3	16 ± 2.0		
1.0	18 ± 5.5		
3.3	16 ± 2.2	32 ± 1.5	30 ± 0.6
10.0	10 ± 1.2	23 ± 4.7	22 ± 3.2
33.0	3 ± 0.9 ^s	22 ± 3.3	23 ± 2.0
100.0		25 ± 3.7	31 ± 0.3
333.0		23 ± 0.6	21 ± 0.7 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			69 ± 4.5
Positive Control ⁴		81 ± 6.2	
Positive Control ⁶	224 ± 13.4		

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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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 1.0 ug/Plate 2-Aminoanthracene

5: 2.0 ug/Plate 2-Aminoanthracene

6: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****