

Experiment Number: 176359

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 6-Nitrobenzimidazole

CAS Number: 94-52-0

Date Report Requested: 09/13/2018

Time Report Requested: 14:38:43

NTP Study Number:

176359

Study Result:

Positive

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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	145 ± 10.5	145 ± 2.5	216 ± 83.6	151 ± 7.3	113 ± 15.6
1.0		214 ± 9.8		243 ± 10.1	
33.0	314 ± 6.0	317 ± 5.8	428 ± 10.3	413 ± 12.3	385 ± 17.8
100.0	368 ± 2.5		469 ± 17.8		447 ± 14.3
333.0	451 ± 18.7	450 ± 8.7	541 ± 9.0	510 ± 13.5	546 ± 13.7
1000.0	633 ± 4.9	736 ± 24.9	650 ± 6.4	736 ± 15.0	691 ± 10.6
2000.0		817 ± 25.0		935 ± 19.5	
3333.0	454 ± 129.5		136 ± 13.3		619 ± 127.4
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					3108 ± 14.5
Positive Control ³			1903 ± 55.7	1044 ± 40.4	
Positive Control ⁴	2923 ± 21.0	1108 ± 22.3			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	139 ± 6.9
1.0	214 ± 3.5
33.0	431 ± 1.7
100.0	
333.0	528 ± 7.3
1000.0	784 ± 19.2
2000.0	923 ± 2.3
3333.0	
Trial Summary	Positive
Positive Control ²	1479 ± 81.1
Positive Control ³	
Positive Control ⁴	

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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	33 ± 5.9	29 ± 1.5	8 ± 0.9	16 ± 2.1	11 ± 1.9
1.0		22 ± 2.0		16 ± 4.0	
33.0	24 ± 3.6	30 ± 2.7	18 ± 2.6	19 ± 3.0	13 ± 2.2
100.0	20 ± 1.9		17 ± 1.8		15 ± 1.8
333.0	25 ± 5.2	27 ± 1.7	20 ± 1.9	25 ± 0.6	15 ± 2.3
1000.0	23 ± 1.2	31 ± 5.4	26 ± 1.5	24 ± 1.7	16 ± 2.1
2000.0		30 ± 3.2		31 ± 1.5	
3333.0	5 ± 0.3		4 ± 0.6		9 ± 4.2
Trial Summary	Negative	Negative	Positive	Equivocal	Negative
Positive Control ²					191 ± 13.7
Positive Control ³			98 ± 2.1	68 ± 2.9	
Positive Control ⁴	2352 ± 43.9	845 ± 33.4			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	12 ± 0.9
1.0	21 ± 2.1
33.0	21 ± 2.0
100.0	
333.0	25 ± 4.0
1000.0	29 ± 1.0
2000.0	27 ± 2.2
3333.0	
Trial Summary	Weakly Positive
Positive Control ²	78 ± 8.3
Positive Control ³	
Positive Control ⁴	

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	9 ± 0.6	12 ± 1.9	10 ± 0.3	12 ± 0.0	6 ± 0.0
1.0		8 ± 3.9		12 ± 1.5	
33.0	11 ± 2.0	13 ± 4.1	17 ± 1.9	10 ± 0.7	11 ± 2.3
100.0	11 ± 1.5		10 ± 2.0		13 ± 1.7
333.0	17 ± 4.3	15 ± 2.1	18 ± 0.7	16 ± 2.0	13 ± 1.8
1000.0	31 ± 1.2	26 ± 2.2	19 ± 0.9	17 ± 1.2	25 ± 1.0
2000.0		22 ± 1.5		20 ± 2.5	
3333.0	18 ± 2.0		16 ± 3.8		19 ± 1.0
Trial Summary	Positive	Weakly Positive	Negative	Equivocal	Positive
Positive Control ²					338 ± 27.4
Positive Control ³			153 ± 12.0	76 ± 4.7	
Positive Control ⁵	487 ± 21.3	432 ± 78.1			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.2
1.0	9 ± 1.8
33.0	14 ± 1.2
100.0	
333.0	14 ± 1.2
1000.0	21 ± 2.0
2000.0	22 ± 3.2
3333.0	
Trial Summary	Weakly Positive
Positive Control ²	115 ± 11.0
Positive Control ³	
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	12 ± 0.3	18 ± 1.9	22 ± 2.2	27 ± 2.7	22 ± 3.5
1.0		15 ± 2.6		31 ± 3.0	
33.0	13 ± 1.8	20 ± 4.2	26 ± 0.7	33 ± 1.8	26 ± 2.0
100.0	21 ± 3.9		32 ± 2.6		27 ± 1.2
333.0	37 ± 5.2	38 ± 3.4	30 ± 0.9	31 ± 1.7	42 ± 1.9
1000.0	71 ± 6.7	88 ± 4.7	36 ± 2.5	45 ± 3.3	49 ± 5.6
2000.0		93 ± 8.7		51 ± 3.5	
3333.0	49 ± 7.5		31 ± 3.5		44 ± 1.7
Trial Summary	Positive	Positive	Equivocal	Weakly Positive	Weakly Positive
Positive Control ²					2272 ± 64.0
Positive Control ³			1347 ± 58.7	861 ± 62.0	
Positive Control ⁶	1423 ± 4.2	1332 ± 29.7			

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Test Compound: 6-Nitrobenzimidazole

CAS Number: 94-52-0

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	30 ± 3.9
1.0	34 ± 2.4
33.0	36 ± 4.9
100.0	
333.0	34 ± 5.0
1000.0	59 ± 2.6
2000.0	68 ± 6.8
3333.0	
Trial Summary	Weakly Positive
Positive Control ²	1363 ± 71.8
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: Dimethyl Sulfoxide

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 ****