

Experiment Number: 074889

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: N-Hydroxybenzamide

CAS Number: 495-18-1

Date Report Requested: 09/11/2018

Time Report Requested: 00:23:34

NTP Study Number:

074889

Study Result:

Positive

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Date Report Requested: 09/11/2018

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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	114 ± 1.5	140 ± 6.2	122 ± 7.1	151 ± 7.0	132 ± 5.4
33.0		146 ± 4.3		165 ± 6.4	
100.0	206 ± 6.0	188 ± 7.8	171 ± 17.4	208 ± 8.9	191 ± 44.5
333.0	253 ± 9.5	265 ± 19.0	262 ± 13.4	344 ± 15.4	232 ± 22.6
1000.0	420 ± 10.7	483 ± 10.2	428 ± 55.2	608 ± 25.3	428 ± 25.9
3333.0	646 ± 102.4	734 ± 31.2	610 ± 52.4	1001 ± 33.9	509 ± 77.5
6666.0	5 ± 5.0 ^x		41 ± 21.5		8 ± 6.1
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			596 ± 16.3	724 ± 34.5	1799 ± 34.3
Positive Control ³	515 ± 26.8	544 ± 32.5			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	108 ± 4.7
33.0	133 ± 4.9
100.0	164 ± 10.5
333.0	285 ± 11.3
1000.0	491 ± 18.0
3333.0	749 ± 31.6
6666.0	
Trial Summary	Positive
Positive Control ²	2276 ± 47.7
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	18 ± 1.7	14 ± 1.7	8 ± 2.1	11 ± 0.7	9 ± 3.5
100.0	15 ± 2.4	17 ± 2.1	8 ± 2.9	14 ± 1.0	8 ± 0.3
333.0	13 ± 2.8	17 ± 1.0	10 ± 2.7	16 ± 0.7	13 ± 3.0
1000.0	22 ± 2.2	16 ± 1.8	19 ± 1.9	20 ± 0.9	16 ± 3.5
1666.0		15 ± 1.0		23 ± 2.4	
3333.0	18 ± 6.7	15 ± 0.9	15 ± 1.2	30 ± 1.0	10 ± 2.4
6666.0	3 ± 1.5		6 ± 3.5		1 ± 0.9
Trial Summary	Negative	Negative	Equivocal	Positive	Equivocal
Positive Control ³	526 ± 28.2	569 ± 23.2			
Positive Control ⁴			184 ± 10.4	297 ± 17.1	616 ± 14.0

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.0
100.0	11 ± 1.0
333.0	11 ± 2.7
1000.0	19 ± 0.9
1666.0	23 ± 1.5
3333.0	23 ± 2.1
6666.0	
Trial Summary	Positive
Positive Control ³	
Positive Control ⁴	636 ± 8.8

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Test Compound: N-Hydroxybenzamide

CAS Number: 495-18-1

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	5 ± 1.7	10 ± 2.7	10 ± 1.9
1.0	8 ± 2.7		
3.0	7 ± 0.9	15 ± 3.9	8 ± 1.9
10.0	10 ± 1.7	10 ± 1.5	11 ± 2.1
33.0	33 ± 1.8	17 ± 1.2	15 ± 2.5
100.0	71 ± 2.5	41 ± 4.3	30 ± 1.8
333.0		111 ± 8.3	78 ± 9.0
Trial Summary	Positive	Positive	Positive
Positive Control ⁴		187 ± 16.4	128 ± 8.4
Positive Control ⁵	346 ± 25.8		

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	135 ± 7.0	167 ± 4.3	185 ± 14.3	209 ± 8.9	187 ± 4.7
1.0		176 ± 5.2			
3.0		198 ± 13.0		268 ± 3.7	
10.0		291 ± 10.9		308 ± 8.0	
33.0		555 ± 19.0		401 ± 15.7	
100.0	874 ± 25.1	1144 ± 40.5	479 ± 6.4	742 ± 41.6	483 ± 22.1
333.0	1492 ± 92.6		1052 ± 30.0	1541 ± 62.1	918 ± 45.0
1000.0	2345 ± 99.3		1668 ± 100.6		1722 ± 20.8
3333.0	2676 ± 366.7		59 ± 59.0 ^x		2528 ± 112.0
6666.0	0 ± 0.0 ^x		0 ± 0.3 ^x		1 ± 1.3 ^x
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ⁴			979 ± 34.4	1223 ± 27.1	1267 ± 25.5
Positive Control ⁵	967 ± 64.4	2089 ± 57.6			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	184 ± 3.8
1.0	
3.0	206 ± 12.9
10.0	226 ± 4.9
33.0	296 ± 2.3
100.0	496 ± 13.0
333.0	1176 ± 54.7
1000.0	
3333.0	
6666.0	
Trial Summary	Positive
Positive Control ⁴	1456 ± 80.3
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 ± 1.5	18 ± 0.9	28 ± 1.5	30 ± 6.5	34 ± 4.1
33.0		24 ± 2.0			
100.0	27 ± 6.4	35 ± 7.4	30 ± 5.8	45 ± 3.5	40 ± 1.2
333.0	47 ± 3.4	58 ± 6.4	55 ± 3.6	62 ± 0.9	42 ± 4.8
1000.0	132 ± 4.7	141 ± 19.4	84 ± 1.5	151 ± 9.5	101 ± 6.9
1666.0				206 ± 13.5	
3333.0	159 ± 37.1	261 ± 30.4	137 ± 47.1	300 ± 37.6	120 ± 40.7
6666.0	Toxic		12 ± 9.2		6 ± 4.4
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			282 ± 9.1	389 ± 17.5	1089 ± 38.4
Positive Control ⁶	961 ± 106.2	1169 ± 16.8			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	33 ± 2.6
33.0	28 ± 2.1
100.0	37 ± 0.6
333.0	50 ± 7.2
1000.0	121 ± 8.9
1666.0	
3333.0	263 ± 9.7
6666.0	
Trial Summary	Positive
Positive Control ²	1484 ± 52.6
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: 1.0 ug/Plate 2-Aminoanthracene
- 3: 1.0 ug/Plate Sodium Azide
- 4: 2.5 ug/Plate 2-Aminoanthracene
- 5: 50.0 ug/Plate 9-Aminoacridine
- 6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine
- x: Slight Toxicity and Precipitate

**** END OF REPORT ****