

Experiment Number: 797992

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 4-Biphenylamine

CAS Number: 92-67-1

Date Report Requested: 09/18/2018

Time Report Requested: 06:53:11

NTP Study Number:

797992

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	129 ± 3.7	130 ± 5.5	159 ± 3.1	147 ± 9.3	166 ± 10.2
3.3	125 ± 7.8	101 ± 14.4	289 ± 11.5	258 ± 14.5	409 ± 11.3
10.0	123 ± 0.3	120 ± 2.0	573 ± 47.0	563 ± 67.2	913 ± 44.6
33.0	102 ± 13.4	109 ± 5.2	1208 ± 2.7	975 ± 94.8	1250 ± 28.0
100.0	111 ± 1.5	117 ± 5.7	1627 ± 45.6	1232 ± 145.1	1585 ± 14.8
333.0	105 ± 8.4	86 ± 11.3	1573 ± 25.8	1238 ± 113.8	1810 ± 65.9
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control ²			429 ± 37.5	442 ± 38.1	894 ± 121.6
Positive Control ³	444 ± 44.8	451 ± 20.9			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	172 ± 16.1
3.3	539 ± 58.3
10.0	1106 ± 94.7
33.0	1684 ± 196.2
100.0	1831 ± 106.8
333.0	1973 ± 64.1
Trial Summary	Positive
Positive Control ²	1135 ± 74.5
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	12 ± 2.0	12 ± 1.5	11 ± 1.3	14 ± 2.8	17 ± 1.3
3.3	11 ± 1.8	12 ± 1.8		18 ± 2.7	18 ± 2.7
10.0	12 ± 0.7	13 ± 1.2		20 ± 1.2	18 ± 3.1
33.0	11 ± 2.5	14 ± 1.8	13 ± 1.5	25 ± 0.7	20 ± 5.0
66.0			9 ± 0.6		
100.0	8 ± 2.3	8 ± 0.0	5 ± 1.2	21 ± 1.3	18 ± 3.7
166.0			4 ± 0.6		
333.0	6 ± 1.2	3 ± 1.5	2 ± 0.6	19 ± 0.0	16 ± 7.0
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²				41 ± 6.3	38 ± 1.5
Positive Control ³	534 ± 19.0	559 ± 14.9	682 ± 32.5		

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	17 ± 3.3	9 ± 0.9	9 ± 0.0	10 ± 2.4
3.3		9 ± 0.6	18 ± 5.7	
10.0		9 ± 0.6	19 ± 5.0	
33.0	25 ± 3.5	14 ± 1.5	22 ± 3.8	28 ± 0.6
66.0	28 ± 4.6			32 ± 2.1
100.0	25 ± 3.7	11 ± 2.6	22 ± 5.8	27 ± 0.3
166.0	17 ± 4.9			29 ± 2.1
333.0	20 ± 2.2	14 ± 1.9	18 ± 2.4	27 ± 2.3
Trial Summary	Negative	Negative	Weakly Positive	Weakly Positive
Positive Control ²	40 ± 6.1	80 ± 8.1	99 ± 4.9	79 ± 7.5
Positive Control ³				

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Test Compound: 4-Biphenylamine

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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	5 ± 0.7	7 ± 1.5	10 ± 0.3	9 ± 0.7	9 ± 1.2
3.3	5 ± 0.6	5 ± 0.9	13 ± 1.2	9 ± 2.0	8 ± 1.7
10.0	6 ± 1.2	6 ± 1.8	15 ± 2.0	17 ± 2.4	14 ± 1.5
33.0	4 ± 1.0	5 ± 1.0	28 ± 2.4	32 ± 2.8	40 ± 4.1
100.0	3 ± 0.7	4 ± 0.3	31 ± 2.6	41 ± 7.2	38 ± 2.8
333.0	3 ± 0.9	5 ± 0.5	38 ± 3.2	44 ± 5.5	27 ± 0.9
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control ²			25 ± 6.3	31 ± 3.0	68 ± 8.2
Positive Control ⁴	118 ± 17.0	215 ± 36.4			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.5
3.3	13 ± 4.1
10.0	20 ± 4.1
33.0	41 ± 2.3
100.0	49 ± 7.5
333.0	26 ± 3.1
Trial Summary	Positive
Positive Control ²	76 ± 14.2
Positive Control ⁴	

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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 ± 1.2	18 ± 3.2	26 ± 1.8	32 ± 3.8	25 ± 2.1
3.3	9 ± 2.3	20 ± 3.5	54 ± 6.5	92 ± 13.2	84 ± 5.7
10.0	11 ± 2.2	20 ± 2.6	173 ± 19.6	276 ± 43.3	259 ± 26.0
33.0	14 ± 0.3	20 ± 1.2	367 ± 8.8	552 ± 84.9	484 ± 27.7
100.0	9 ± 1.5	13 ± 0.3	669 ± 22.3	720 ± 80.1	776 ± 9.0
333.0	9 ± 2.0	11 ± 1.5	769 ± 44.8	847 ± 142.2	1030 ± 30.2
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control ²			280 ± 30.0	303 ± 10.5	730 ± 27.9
Positive Control ⁵	187 ± 1.3	268 ± 18.9			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	32 ± 3.8
3.3	118 ± 11.3
10.0	276 ± 33.2
33.0	435 ± 97.5
100.0	497 ± 55.9
333.0	598 ± 99.1
Trial Summary	Positive
Positive Control ²	992 ± 120.0
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: 3.3 ug/Plate Sodium Azide
- 4: 33.0 ug/Plate 9-Aminoacridine
- 5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **