

Experiment Number: 642172

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Biphenylamine

CAS Number: 90-41-5

Date Report Requested: 09/11/2018

Time Report Requested: 04:40:49

NTP Study Number:

642172

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	113 ± 2.0	125 ± 8.8	121 ± 8.2	135 ± 2.9	136 ± 9.8
1.0	124 ± 5.6				
3.0	123 ± 4.9	132 ± 6.2	158 ± 5.9	142 ± 10.9	144 ± 7.2
10.0	131 ± 4.7	150 ± 8.0	173 ± 4.5	123 ± 10.3	144 ± 8.5
33.0	126 ± 8.4	213 ± 3.8	269 ± 21.9	178 ± 14.6	181 ± 9.2
100.0	118 ± 11.2	387 ± 28.8	492 ± 23.7	244 ± 5.9	185 ± 92.6
333.0		615 ± 40.5	671 ± 40.1	406 ± 46.4	444 ± 13.0
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ²		588 ± 27.3	548 ± 14.0	1344 ± 103.2	2085 ± 107.9
Positive Control ³	441 ± 8.4				

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	22 ± 2.0	7 ± 0.3	12 ± 1.5
1.0	24 ± 1.5		
3.0	22 ± 3.0	9 ± 1.2	9 ± 2.0
10.0	19 ± 0.9	8 ± 1.9	10 ± 1.8
33.0	22 ± 1.9	9 ± 0.3	6 ± 0.3
100.0	26 ± 2.6	10 ± 1.3	11 ± 2.3
333.0		13 ± 1.5	10 ± 3.5
Trial Summary	Negative	Negative	Negative
Positive Control ³	265 ± 8.2		
Positive Control ⁴		151 ± 10.5	448 ± 20.8

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Strain: TA1537

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 2.1	10 ± 1.3
3.0	7 ± 2.5	10 ± 1.2
10.0	6 ± 0.3	10 ± 1.2
33.0	11 ± 1.5	8 ± 0.0
100.0	18 ± 1.8	11 ± 1.2
333.0	17 ± 4.7	12 ± 1.5
Trial Summary	Equivocal	Negative
Positive Control ⁴	154 ± 15.7	364 ± 42.1

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	130 ± 4.0	173 ± 14.8	141 ± 9.8	135 ± 3.8	144 ± 4.7
1.0	102 ± 8.4				
3.0	107 ± 15.7	162 ± 5.5	194 ± 21.2	154 ± 3.8	161 ± 11.3
10.0	97 ± 6.9	169 ± 3.5	189 ± 18.5	176 ± 5.8	178 ± 6.9
33.0	115 ± 9.7	172 ± 4.7	221 ± 13.3	187 ± 6.7	199 ± 12.5
100.0	113 ± 20.4	256 ± 11.3	292 ± 30.3	331 ± 15.6	256 ± 14.3
333.0		415 ± 14.0	242 ± 58.4	138 ± 127.6 ^s	308 ± 20.2
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ⁴		871 ± 24.8	793 ± 10.4	665 ± 16.0	1519 ± 14.7
Positive Control ⁵	1075 ± 37.7				

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	165 ± 4.3
1.0	
3.0	143 ± 17.5
10.0	186 ± 13.9
33.0	196 ± 9.4
100.0	223 ± 19.1
333.0	286 ± 17.2
Trial Summary	Positive
Positive Control ⁴	1787 ± 78.0
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	22 ± 0.6	28 ± 0.3	30 ± 3.5	43 ± 3.8	35 ± 3.3
1.0	17 ± 1.5				
3.0	26 ± 2.0	36 ± 1.9	33 ± 4.6	45 ± 2.6	36 ± 2.3
10.0	22 ± 4.3	32 ± 5.3	33 ± 1.7	44 ± 3.9	41 ± 1.8
33.0	21 ± 3.4	52 ± 9.0	42 ± 1.7	68 ± 5.7	65 ± 1.2
100.0	25 ± 3.9	102 ± 7.0	100 ± 6.1	81 ± 4.6	83 ± 8.1
333.0		257 ± 6.3	121 ± 19.5	114 ± 4.2	135 ± 7.2
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ²		297 ± 5.4	248 ± 20.6	1367 ± 25.7	1520 ± 30.2
Positive Control ⁶	1305 ± 76.7				

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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
- s: Slight Toxicity

** END OF REPORT **