

Experiment Number: 802373

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Biphenylamine

CAS Number: 90-41-5

Date Report Requested: 09/15/2018

Time Report Requested: 09:03:39

NTP Study Number:

802373

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	120 ± 7.0	153 ± 9.6	100 ± 7.3	136 ± 19.9	114 ± 6.7
1.0	157 ± 10.5				
3.3	147 ± 3.6				
10.0	164 ± 14.8	213 ± 1.2	138 ± 6.3	135 ± 8.2	95 ± 11.2
33.3	155 ± 10.0	293 ± 5.2	180 ± 10.1	189 ± 7.3	108 ± 15.9
100.0	191 ± 9.9	441 ± 21.7	303 ± 27.3	265 ± 17.3	163 ± 10.6
333.3		553 ± 7.3	333 ± 19.9	394 ± 30.2	233 ± 10.4
1000.0		Toxic	Toxic	468 ± 45.4	31 ± 30.7 ^s
Trial Summary	Equivocal	Positive	Positive	Positive	Weakly Positive
Positive Control ²		813 ± 51.8	317 ± 20.9	1385 ± 34.2	1325 ± 39.9
Positive Control ³	448 ± 12.5				

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	26 ± 5.0	12 ± 2.1	10 ± 4.4
1.0	20 ± 7.0		
3.3	28 ± 1.5		
10.0	21 ± 2.1	12 ± 2.2	7 ± 2.3
33.3	24 ± 1.5	19 ± 2.0	14 ± 1.5
100.0	23 ± 2.8	17 ± 1.2	12 ± 1.8
333.3		21 ± 3.5	14 ± 2.0
1000.0		11 ± 4.1	11 ± 2.2
Trial Summary	Negative	Equivocal	Negative
Positive Control ³	502 ± 22.4		
Positive Control ⁴		453 ± 11.8	491 ± 11.8

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.5	23 ± 1.2	17 ± 0.3
1.0	15 ± 1.5		
3.3	19 ± 1.9		
10.0	15 ± 0.9	23 ± 4.2	22 ± 1.3
33.3	17 ± 0.9	21 ± 2.9	18 ± 5.0
100.0	17 ± 1.7	26 ± 4.2	13 ± 2.0
333.3		19 ± 0.9	10 ± 2.4
1000.0		17 ± 1.2	7 ± 5.0
Trial Summary	Equivocal	Negative	Negative
Positive Control ⁴		251 ± 15.0	253 ± 28.4
Positive Control ⁵	270 ± 37.9		

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Test Compound: 2-Biphenylamine

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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	29 ± 1.5	45 ± 3.8	35 ± 4.1	35 ± 5.0	23 ± 1.9
1.0	23 ± 1.7				
3.3	28 ± 1.8				
10.0	23 ± 4.2	59 ± 4.7	39 ± 1.0	37 ± 4.0	29 ± 2.1
33.3	21 ± 2.7	71 ± 8.7	37 ± 4.8	50 ± 2.8	37 ± 2.6
100.0	27 ± 1.5	92 ± 0.7	69 ± 2.7	59 ± 4.5	42 ± 1.8
333.3		136 ± 4.4	98 ± 6.4	100 ± 6.7	61 ± 2.6
1000.0		47 ± 25.8 ^s	0 ± 0.0 ^s	102 ± 23.0	116 ± 14.4 ^s
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ²		537 ± 21.5	156 ± 4.9	1204 ± 29.5	714 ± 47.6
Positive Control ⁶	658 ± 15.5				

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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: 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 ****