

Experiment Number: 292356

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: **21:07:59**

NTP Study Number: 292356

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	128 ± 12.5	108 ± 7.4	123 ± 11.3	135 ± 9.6	163 ± 3.8
1.0	113 ± 17.7				
3.0	112 ± 9.6		167 ± 10.7		
10.0	111 ± 15.0	175 ± 8.2	177 ± 16.2	158 ± 3.9	158 ± 10.4
33.0	99 ± 7.8	293 ± 12.8	284 ± 14.4	220 ± 3.3	214 ± 12.0
66.0			411 ± 12.7		
100.0	96 ± 5.0	560 ± 34.1	509 ± 16.8	370 ± 8.1	313 ± 15.2
166.0					454 ± 26.9
333.0		1110 ± 63.9		601 ± 16.9	624 ± 26.1
666.0		560 ± 114.9 ^s		69 ± 33.0 ^s	
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ²				815 ± 3.5	778 ± 32.0
Positive Control ³		509 ± 6.7	461 ± 58.8		
Positive Control ⁴	468 ± 6.2				

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	20 ± 0.6	10 ± 0.3	9 ± 0.6
1.0	17 ± 2.5		
3.0	18 ± 2.6		
10.0	13 ± 1.5	10 ± 4.2	12 ± 1.3
33.0	12 ± 1.2	10 ± 0.6	7 ± 0.6
100.0	12 ± 1.8	10 ± 1.8	10 ± 0.9
333.0		14 ± 0.9	13 ± 1.5
666.0		4 ± 0.3 ^s	9 ± 2.5 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ³			300 ± 7.8
Positive Control ⁴	355 ± 8.1		
Positive Control ⁵		217 ± 8.2	

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	169 ± 7.2	204 ± 4.1	203 ± 5.0	193 ± 5.8	186 ± 3.5
1.0	172 ± 5.2				
3.0	164 ± 9.9		207 ± 1.8		
10.0	165 ± 12.6	231 ± 18.1	204 ± 4.7	200 ± 4.4	202 ± 3.6
33.0	154 ± 4.7	256 ± 8.4	227 ± 4.9	225 ± 3.5	227 ± 6.4
100.0	159 ± 15.1	358 ± 9.0	298 ± 2.0	273 ± 13.3	260 ± 5.2
166.0					311 ± 9.0
333.0		523 ± 26.5	325 ± 6.4	385 ± 40.3	364 ± 3.5
666.0		0 ± 0.0 ^s		138 ± 6.5 ^s	
Trial Summary	Negative	Positive	Weakly Positive	Positive	Positive
Positive Control ²				553 ± 20.9	647 ± 22.1
Positive Control ³		472 ± 7.9	435 ± 17.2		
Positive Control ⁶	456 ± 6.1				

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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	21 ± 3.7	26 ± 1.2	38 ± 3.8	30 ± 0.3	33 ± 1.7
1.0	21 ± 3.0				
3.0	22 ± 2.2				
10.0	18 ± 1.8	34 ± 1.9	41 ± 1.7	35 ± 4.7	35 ± 3.7
33.0	20 ± 3.7	47 ± 6.6	50 ± 3.8	58 ± 5.3	50 ± 2.6
66.0			82 ± 5.7		
100.0	22 ± 2.1	118 ± 10.5	108 ± 11.6	100 ± 5.8	70 ± 4.9
166.0					98 ± 6.1
333.0		300 ± 20.6	269 ± 9.5	168 ± 8.7	146 ± 7.5
666.0		0 ± 0.0 ^s		19 ± 11.6 ^s	
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ²				612 ± 7.0	451 ± 16.8
Positive Control ³		331 ± 16.7	248 ± 30.9		
Positive Control ⁷	673 ± 13.0				

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****