

Experiment Number: 773612

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: **Biphenyl**

CAS Number: **92-52-4**

Date Report Requested: **09/17/2018**

Time Report Requested: **21:13:42**

NTP Study Number:

773612

Study Result:

Negative

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G06: Ames Summary Data

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Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**Test Compound: **Biphenyl**

Time Report Requested: 21:13:42

CAS Number: 92-52-4

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	102 ± 3.2	73 ± 4.4	91 ± 3.2	86 ± 2.5	88 ± 4.1
1.0	109 ± 6.9	78 ± 3.7	97 ± 5.0	84 ± 4.6	82 ± 3.8
3.0	92 ± 7.4	76 ± 2.9	93 ± 4.7	79 ± 1.0	85 ± 0.9
10.0	103 ± 7.8	81 ± 5.0	94 ± 9.9	73 ± 0.3	84 ± 10.5
33.0	76 ± 2.9	59 ± 3.5	87 ± 8.6	74 ± 7.0	89 ± 0.7
100.0	87 ± 0.9 ^s	58 ± 6.4	93 ± 5.3	60 ± 0.3	86 ± 4.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					3349 ± 122.8
Positive Control ³			493 ± 56.8	1432 ± 62.5	
Positive Control ⁴	1955 ± 92.3	1864 ± 48.3			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	68 ± 4.1
1.0	73 ± 5.5
3.0	63 ± 3.5
10.0	62 ± 3.2
33.0	74 ± 3.9
100.0	61 ± 4.4
Trial Summary	Negative
Positive Control ²	2649 ± 267.4
Positive Control ³	
Positive Control ⁴	

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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	9 ± 3.0	18 ± 1.2	7 ± 1.2	10 ± 0.9	7 ± 0.5
1.0	12 ± 0.0	18 ± 2.1	12 ± 3.2	9 ± 2.0	11 ± 0.3
3.0	10 ± 1.2	18 ± 2.0	8 ± 1.5	10 ± 1.2	13 ± 1.5
10.0	8 ± 2.6	23 ± 4.0	8 ± 0.3	9 ± 1.2	9 ± 2.0
33.0	5 ± 1.9	17 ± 2.6	11 ± 1.0	8 ± 2.2	10 ± 2.3
100.0	Toxic	14 ± 0.9 ^s	5 ± 2.0 ^s	9 ± 1.8	6 ± 1.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					295 ± 11.1
Positive Control ³			55 ± 4.7	81 ± 3.3	
Positive Control ⁴	857 ± 18.9	887 ± 142.0			

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Test Compound: Biphenyl
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Date Report Requested: 09/17/2018
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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	12 ± 0.9
1.0	11 ± 0.3
3.0	5 ± 0.9
10.0	11 ± 2.0
33.0	8 ± 2.0
100.0	8 ± 1.0 ^s
Trial Summary	Negative
Positive Control ²	123 ± 8.8
Positive Control ³	
Positive Control ⁴	

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Test Compound: Biphenyl

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Date Report Requested: 09/17/2018

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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	6 ± 1.2	3 ± 0.9	5 ± 0.9	9 ± 2.0	6 ± 0.3
1.0	7 ± 1.2	5 ± 0.9	7 ± 0.7	7 ± 0.3	6 ± 1.5
3.0	5 ± 0.9	9 ± 1.5	9 ± 1.7	5 ± 1.5	7 ± 0.9
10.0	7 ± 0.7	7 ± 2.5	7 ± 2.8	6 ± 1.5	5 ± 0.3
33.0	4 ± 1.5	3 ± 1.7	7 ± 1.5	7 ± 2.8	5 ± 0.3
100.0	3 ± 0.7 ^s	2 ± 1.0 ^s	6 ± 2.0	5 ± 1.2	6 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					285 ± 9.0
Positive Control ³			64 ± 16.2	55 ± 2.6	
Positive Control ⁵	503 ± 92.5	192 ± 65.3			

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Test Compound: **Biphenyl**

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.2
1.0	7 ± 1.9
3.0	4 ± 0.9
10.0	6 ± 1.7
33.0	7 ± 1.5
100.0	4 ± 1.5
Trial Summary	Negative
Positive Control ²	255 ± 5.8
Positive Control ³	
Positive Control ⁵	

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CAS Number: 92-52-4

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	16 ± 1.8	27 ± 5.2	16 ± 0.6	21 ± 3.9	25 ± 5.0
1.0	15 ± 1.0	22 ± 3.3	19 ± 1.9	22 ± 2.4	21 ± 0.3
3.0	17 ± 0.6	22 ± 3.8	19 ± 2.5	24 ± 1.2	24 ± 1.2
10.0	19 ± 3.4	20 ± 2.6	16 ± 1.5	22 ± 4.0	19 ± 1.3
33.0	12 ± 2.6	11 ± 1.2	19 ± 1.0	20 ± 2.3	19 ± 4.7
100.0	10 ± 0.9 ^s	12 ± 1.2	20 ± 1.2	18 ± 1.2	20 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					2525 ± 251.4
Positive Control ³			384 ± 48.2	1322 ± 35.8	
Positive Control ⁶	1207 ± 34.1	1564 ± 29.2			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	25 ± 2.6
1.0	21 ± 2.7
3.0	18 ± 2.7
10.0	19 ± 2.1
33.0	23 ± 2.5
100.0	19 ± 2.1
Trial Summary	Negative
Positive Control ²	2748 ± 127.3
Positive Control ³	
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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****