Experiment Number: **000002**

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

G06: Ames Summary Data

Test Compound: **2-Biphenylamine**

CAS Number: **90-41-5**

Date Report Requested: **09/13/2018**

Time Report Requested: **23:09:36**

NTP Study Number: 000002

Study Result: Positive

Experiment Number: **000002**

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

G06: Ames Summary Data

Test Compound: **2-Biphenylamine**

CAS Number: **90-41-5**

Date Report Requested: **09/13/2018**

Time Report Requested: **23:09:36**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control[1]	112 ± 16.8	82 ± 1.5	127 ± 1.7	106 ± 9.6	103 ± 4.3
3.3					127 ± 6.1
10.0				169 ± 10.0	125 ± 5.9
33.0		85 ± 1.7		295 ± 40.1	196 ± 9.3
100.0	83 ± 7.4	91 ± 2.8	212 ± 6.4	331 ± 39.4	293 ± 5.8
333.0	60 ± 2.3	Toxic	233 ± 9.3	320 ± 26.9	274 ± 8.2
1000.0	45 ± 3.6	Toxic	35 ± 18.3	1 ± 0.7	
3333.0	8 ± 1.5	Toxic	Toxic		
10000.0	Toxic		Toxic		
Trial Summary	Negative	Negative	Equivocal	Positive	Positive
Positive Control[2]			859 ± 32.2	1170 ± 80.4	1348 ± 11.9
Positive Control[3]	416 ± 11.5	693 ± 66.6			

Experiment Number: **000002**

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

G06: Ames Summary Data

Test Compound: **2-Biphenylamine**

CAS Number: **90-41-5**

Date Report Requested: **09/13/2018**

Time Report Requested: **23:09:36**

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control[1]	140 ± 4.9	110 ± 10.0	107 ± 7.4
3.3			121 ± 5.0
10.0		142 ± 12.4	116 ± 15.8
33.0		148 ± 13.0	133 ± 13.9
100.0	162 ± 7.1	158 ± 16.6	157 ± 2.5
333.0	99 ± 23.0	100 ± 0.5	139 ± 10.9
1000.0	97 ± 31.0	0 ± 0.0	
3333.0	131 ± 26.0		
10000.0	Toxic		
Trial Summary	Negative	Negative	Negative
Positive Control[2]	1950 ± 40.2	1929 ± 92.5	1501 ± 199.2
Positive Control[3]			

Experiment Number: **000002**

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

G06: Ames Summary Data

Test Compound: **2-Biphenylamine**

CAS Number: **90-41-5**

Date Report Requested: **09/13/2018**

Time Report Requested: **23:09:36**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	5 ± 1.2	5 ± 0.3	9 ± 2.7	6 ± 1.2	9 ± 1.5
10.0				8 ± 1.2	
33.0		6 ± 0.9		5 ± 0.9	
100.0	2 ± 0.3	6 ± 2.3	4 ± 1.0	7 ± 2.3	6 ± 0.3
333.0	3 ± 0.3	1 ± 0.9	3 ± 0.5	1 ± 0.6	5 ± 1.0
1000.0	1 ± 0.3	0 ± 0.3	7 ± 1.7	2 ± 1.7	7 ± 1.5
3333.0	1 ± 0.3	0 ± 0.0	Toxic		0 ± 0.0
10000.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			40 ± 1.2	39 ± 3.5	60 ± 2.8
Positive Control[3]	112 ± 9.8	332 ± 32.6			

Experiment Number: **000002**

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

G06: Ames Summary Data

Test Compound: **2-Biphenylamine**

CAS Number: **90-41-5**

Date Report Requested: **09/13/2018**

Time Report Requested: **23:09:36**

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	8 ± 1.0
10.0	8 ± 0.3
33.0	7 ± 1.2
100.0	6 ± 0.7
333.0	Toxic
1000.0	0 ± 0.0
3333.0	
10000.0	
Trial Summary	Negative
Positive Control[2]	111 ± 18.6
Positive Control[3]	

Experiment Number: **000002**

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

G06: Ames Summary Data

Test Compound: **2-Biphenylamine**

CAS Number: **90-41-5**

Date Report Requested: **09/13/2018**

Time Report Requested: **23:09:36**

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	7 ± 1.2	5 ± 0.6	11 ± 1.5	8 ± 0.3	10 ± 0.7
3.3				8 ± 1.7	
10.0				10 ± 1.5	
33.0		5 ± 1.8		8 ± 0.9	
100.0	4 ± 0.6	Toxic	8 ± 0.9	11 ± 3.3	10 ± 0.3
333.0	3 ± 0.3	Toxic	Toxic	0 ± 0.0	6 ± 0.5
1000.0	0 ± 0.0	Toxic	Toxic		Toxic
3333.0	1 ± 0.7	Toxic	Toxic		Toxic
10000.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			23 ± 1.5	57 ± 7.0	63 ± 0.9
Positive Control[4]	26 ± 1.0	132 ± 3.2			

Experiment Number: **000002**

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

G06: Ames Summary Data

Test Compound: **2-Biphenylamine**

CAS Number: **90-41-5**

Date Report Requested: **09/13/2018**

Time Report Requested: **23:09:36**

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	7 ± 2.1
3.3	10 ± 3.1
10.0	8 ± 0.9
33.0	4 ± 0.9
100.0	Toxic
333.0	Toxic
1000.0	
3333.0	
10000.0	
Trial Summary	Negative
Positive Control[2]	128 ± 15.9
Positive Control[4]	

Experiment Number: **000002**

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

G06: Ames Summary Data

Test Compound: **2-Biphenylamine**

CAS Number: **90-41-5**

Date Report Requested: **09/13/2018**

Time Report Requested: **23:09:36**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control[1]	12 ± 1.8	14 ± 3.0	21 ± 0.7	17 ± 4.1	21 ± 1.5
3.3					16 ± 3.0
10.0				33 ± 3.4	25 ± 4.2
33.0		13 ± 0.9		56 ± 3.8	40 ± 7.3
100.0	11 ± 1.5	12 ± 0.6	24 ± 2.0	36 ± 8.0	46 ± 2.1
333.0	10 ± 0.9	12 ± 0.5	25 ± 0.9	17 ± 4.5	6 ± 5.5
1000.0	5 ± 1.2	9 ± 1.5	9 ± 2.5	0 ± 0.0	
3333.0	0 ± 0.0	0 ± 0.0	4 ± 1.0		
10000.0	Toxic		Toxic		
Trial Summary	Negative	Negative	Negative	Positive	Positive
Positive Control[2]			528 ± 4.3	600 ± 127.4	656 ± 27.9
Positive Control[5]	174 ± 14.0	287 ± 44.3			

Experiment Number: **000002**

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

G06: Ames Summary Data

Test Compound: **2-Biphenylamine**

CAS Number: **90-41-5**

Date Report Requested: **09/13/2018**

Time Report Requested: **23:09:36**

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control[1]	12 ± 3.2	12 ± 3.3	20 ± 0.9
3.3			20 ± 2.9
10.0		28 ± 2.0	20 ± 3.7
33.0		33 ± 1.2	24 ± 0.9
100.0	23 ± 2.4	20 ± 2.2	35 ± 3.4
333.0	18 ± 2.3	9 ± 5.2	16 ± 2.4
1000.0	3 ± 2.5	Toxic	
3333.0	5 ± 2.6		
10000.0	Toxic		
Trial Summary	Negative	Positive	Weakly Positive
Positive Control[2]	1816 ± 193.8	1108 ± 20.5	1648 ± 145.7
Positive Control[5]			

LEGEND

Values given as Mean or Mean ± 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 **