NTP Study Number: 441926

Study Result: Weakly Positive

Experiment Number: **441926**

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

G06: Ames Summary Data

Test Compound: **Benzoin**

CAS Number: **119-53-9**

Date Report Requested: **09/10/2018**

Time Report Requested: **21:53:09**

Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	97 ± 1.5	101 ± 6.2	87 ± 4.2
33.0	95 ± 2.4		
100.0	109 ± 4.3	103 ± 2.4	77 ± 1.2
333.0	118 ± 5.2	92 ± 2.3	74 ± 5.0
1000.0	141 ± 4.2	99 ± 6.4	71 ± 7.8
2000.0	102 ± 6.6[s]		
3333.0		89 ± 10.1[s]	66 ± 6.6[s]
10000.0		85 ± 5.3[s]	68 ± 3.6[s]
Trial Summary	Equivocal	Negative	Negative
Positive Control[2]			1203 ± 11.2
Positive Control[3]		1638 ± 17.2	
Positive Control[4]	1243 ± 34.3		

Experiment Number: **441926**

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

G06: Ames Summary Data

Test Compound: **Benzoin**

CAS Number: **119-53-9**

Date Report Requested: **09/10/2018**

Time Report Requested: **21:53:09**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9
Vehicle Control[1]	29 ± 2.1	16 ± 3.2	22 ± 2.2	18 ± 0.3	12 ± 3.2
33.0	29 ± 2.8				
100.0	33 ± 2.9	26 ± 2.1	24 ± 2.3	16 ± 4.6	12 ± 1.7
333.0	34 ± 4.9	24 ± 4.0	32 ± 6.6	18 ± 0.3	9 ± 2.0
500.0		36 ± 3.8	31 ± 0.6	21 ± 1.3	
750.0		28 ± 2.0[s]	45 ± 1.7	21 ± 0.9	
1000.0	62 ± 5.9	31 ± 3.2[s]	37 ± 1.8[s]	21 ± 1.5	13 ± 2.1
2000.0	45 ± 5.2[s]	24 ± 4.0[s]	26 ± 0.9[s]	19 ± 0.7[s]	
3333.0					11 ± 2.3[s]
10000.0					9 ± 1.3[s]
Trial Summary	Equivocal	Equivocal	Weakly Positive	Negative	Negative
Positive Control[2]					
Positive Control[3]				157 ± 11.0	157 ± 10.1
Positive Control[4]	1019 ± 16.5	964 ± 25.2	854 ± 37.3		

Experiment Number: **441926**

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

G06: Ames Summary Data

Test Compound: **Benzoin**

CAS Number: **119-53-9**

Date Report Requested: **09/10/2018**

Time Report Requested: **21:53:09**

Strain: TA1535

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9
Vehicle Control[1]	14 ± 2.0	12 ± 0.7
33.0		
100.0	24 ± 2.5	14 ± 3.7
333.0	18 ± 1.5	12 ± 1.3
500.0	17 ± 3.3	
750.0	18 ± 2.2	
1000.0	20 ± 1.2	18 ± 2.0
2000.0	5 ± 1.7[s]	
3333.0		10 ± 0.3[s]
10000.0		10 ± 1.2[s]
Trial Summary	Negative	Negative
Positive Control[2]	123 ± 6.7	134 ± 11.3
Positive Control[3]		
Positive Control[4]		

Experiment Number: **441926**

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

G06: Ames Summary Data

Test Compound: **Benzoin**

CAS Number: **119-53-9**

Date Report Requested: **09/10/2018**

Time Report Requested: **21:53:09**

Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	105 ± 10.7	141 ± 14.4	131 ± 6.4
33.0	97 ± 3.8		
100.0	97 ± 3.1	133 ± 3.2	129 ± 5.6
333.0	104 ± 6.4	119 ± 4.2	127 ± 10.5
1000.0	95 ± 1.5	138 ± 4.9	139 ± 8.3
2000.0	85 ± 4.2[s]		
3333.0		114 ± 9.2[s]	119 ± 10.9[s]
10000.0		94 ± 2.4[s]	93 ± 4.1[s]
Trial Summary	Negative	Negative	Negative
Positive Control[2]			797 ± 36.7
Positive Control[3]		1076 ± 15.6	
Positive Control[5]	513 ± 18.4		

Experiment Number: **441926**

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

G06: Ames Summary Data

Test Compound: **Benzoin**

CAS Number: **119-53-9**

Date Report Requested: **09/10/2018**

Time Report Requested: **21:53:09**

Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	19 ± 4.1	35 ± 2.7	36 ± 2.7
33.0	14 ± 1.2		
100.0	19 ± 1.2	25 ± 3.8	25 ± 3.0
333.0	17 ± 1.2	31 ± 4.2	22 ± 2.7
1000.0	10 ± 1.5	33 ± 2.7	19 ± 1.9
2000.0	18 ± 2.8[s]		
3333.0		26 ± 2.0[s]	20 ± 2.0[s]
10000.0		20 ± 3.8[s]	17 ± 3.0[s]
Trial Summary	Negative	Negative	Negative
Positive Control[2]			1408 ± 55.9
Positive Control[3]		1820 ± 24.3	
Positive Control[6]	2349 ± 116.2		

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: 0.75 ug/Plate 2-Aminoanthracene
3: 1.5 ug/Plate 2-Aminoanthracene
4: 2.5 ug/Plate Sodium Azide
5: 4.0 ug/Plate 9-Aminoacridine
6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine
s: Slight Toxicity

** END OF REPORT **