

Experiment Number: 177980

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

G06: Ames Summary Data

Test Compound: **Benzoin**

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

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

Time Report Requested: **18:09:42**

NTP Study Number:

177980

Study Result:

Negative

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G06: Ames Summary Data

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 09/13/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	118 ± 2.6	79 ± 2.5	127 ± 8.5	88 ± 1.2	118 ± 10.4
33.3		89 ± 6.7		98 ± 6.1	
100.0	119 ± 9.5	85 ± 8.9	139 ± 4.8	95 ± 9.4	118 ± 3.3
333.3	140 ± 13.9	97 ± 6.7	126 ± 2.3	99 ± 7.0	105 ± 12.7
1000.0	109 ± 10.8	82 ± 4.3 ^P	111 ± 4.9	92 ± 6.5 ^P	92 ± 5.7
3333.3	54 ± 2.0 ^P	34 ± 17.9 ^S	88 ± 8.7 ^P	81 ± 2.0 ^P	72 ± 11.7 ^P
10000.0	55 ± 7.9 ^P		90 ± 2.4 ^P		83 ± 7.5 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			866 ± 21.3	925 ± 55.2	2266 ± 23.5
Positive Control ³	359 ± 12.7	495 ± 3.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	99 ± 5.8
33.3	91 ± 3.3
100.0	91 ± 6.9
333.3	82 ± 5.8
1000.0	64 ± 1.9 ^P
3333.3	61 ± 9.5 ^P
10000.0	
Trial Summary	Negative
Positive Control ²	1603 ± 50.7
Positive Control ³	

Experiment Number: 177980

Test Type: Genetic Toxicology - Bacterial
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G06: Ames Summary Data

Test Compound: Benzo(a)pyrene

CAS Number: 119-53-9

Date Report Requested: 09/13/2018

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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	17 ± 3.5	12 ± 2.3	9 ± 2.2	8 ± 2.3	14 ± 0.9
33.3		9 ± 1.5		9 ± 0.3	
100.0	13 ± 2.3	15 ± 1.5	8 ± 1.5	7 ± 0.3	8 ± 1.9
333.3	14 ± 1.2	13 ± 1.2	6 ± 0.9	5 ± 1.7	6 ± 0.9
1000.0	19 ± 3.2	12 ± 3.7 ^p	7 ± 1.2	7 ± 2.5 ^p	9 ± 0.3
3333.3	5 ± 0.9 ^p	12 ± 1.9 ^p	7 ± 1.0 ^p	7 ± 0.3 ^p	8 ± 2.0 ^p
10000.0	6 ± 2.1 ^p		6 ± 0.9 ^p		7 ± 1.2 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	330 ± 7.0	235 ± 9.5			
Positive Control ⁴			553 ± 91.7	450 ± 2.6	509 ± 24.3

Experiment Number: 177980
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Benzo(a)pyrene
CAS Number: 119-53-9

Date Report Requested: 09/13/2018
Time Report Requested: 18:09:42

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 1.5
33.3	8 ± 2.0
100.0	5 ± 1.5
333.3	7 ± 1.9
1000.0	5 ± 0.9 ^P
3333.3	3 ± 0.7 ^P
10000.0	
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	442 ± 5.8

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Test Compound: Benzoin
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Date Report Requested: 09/13/2018
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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	10 ± 1.9	6 ± 1.0	10 ± 1.5	12 ± 0.0	15 ± 0.9
33.3		5 ± 0.7		5 ± 0.7	
100.0	5 ± 1.0	5 ± 1.9	8 ± 0.6	9 ± 1.0	9 ± 1.3
333.3	5 ± 0.9	5 ± 2.1	5 ± 0.3	8 ± 2.1	8 ± 2.1
1000.0	4 ± 1.2	3 ± 0.0 ^p	5 ± 1.2	5 ± 1.0 ^p	8 ± 1.2
3333.3	4 ± 0.3 ^p	1 ± 0.3 ^p	5 ± 1.3 ^p	5 ± 0.6 ^p	3 ± 0.6 ^p
10000.0	4 ± 0.9 ^p		6 ± 2.1 ^p		4 ± 0.7 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			317 ± 24.5	247 ± 17.8	606 ± 15.8
Positive Control ⁵	247 ± 16.6	602 ± 47.8			

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Date Report Requested: 09/13/2018
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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 3.7
33.3	6 ± 1.5
100.0	7 ± 0.3
333.3	5 ± 0.9
1000.0	6 ± 1.2 ^p
3333.3	5 ± 0.9 ^p
10000.0	
Trial Summary	Negative
Positive Control ⁴	364 ± 18.5
Positive Control ⁵	

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Test Compound: Benzoin

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Date Report Requested: 09/13/2018

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	30 ± 4.0	21 ± 2.1	47 ± 4.0	29 ± 0.6	39 ± 5.4
33.3		17 ± 4.0		27 ± 2.8	
100.0	38 ± 0.0	20 ± 0.9	39 ± 3.8	23 ± 1.5	40 ± 4.8
333.3	29 ± 0.3	22 ± 2.6	46 ± 6.4	23 ± 3.6	39 ± 5.9
1000.0	33 ± 2.0	16 ± 1.5 ^P	37 ± 1.3	20 ± 3.5 ^P	32 ± 6.0
3333.3	8 ± 1.5 ^P	5 ± 1.7 ^S	26 ± 4.3 ^P	21 ± 1.5 ^P	16 ± 1.2 ^P
10000.0	8 ± 0.6 ^S		23 ± 3.0 ^P		20 ± 2.7 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			671 ± 26.8	572 ± 29.6	1970 ± 40.8
Positive Control ⁶	594 ± 16.2	825 ± 43.6			

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Date Report Requested: 09/13/2018
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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	30 ± 1.5
33.3	30 ± 4.5
100.0	30 ± 4.3
333.3	23 ± 3.3
1000.0	19 ± 1.0 ^P
3333.3	18 ± 2.8 ^P
10000.0	
Trial Summary	Negative
Positive Control ²	1443 ± 61.4
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: 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

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****