

Experiment Number: 921535

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

G06: Ames Summary Data

Test Compound: **Benzoin**

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

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

Time Report Requested: **06:43:43**

NTP Study Number:

921535

Study Result:

Negative

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Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 09/17/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	121 ± 12.9	122 ± 5.3	125 ± 8.4	110 ± 3.7	124 ± 7.9
10.0	122 ± 3.2			100 ± 4.2	
33.0	123 ± 3.6	139 ± 8.5	118 ± 8.4	90 ± 10.2	109 ± 3.7
100.0	142 ± 6.7	151 ± 3.3	135 ± 3.2	97 ± 12.4	119 ± 1.2
333.0	146 ± 3.7	150 ± 2.4	137 ± 7.5	89 ± 8.1	111 ± 2.5
667.0		140 ± 6.9 ^s	115 ± 5.5 ^s		107 ± 7.5
1000.0	191 ± 5.2 ^s	122 ± 9.9 ^s	101 ± 11.9 ^p	73 ± 7.2 ^s	97 ± 6.6 ^s
Trial Summary	Weakly Positive	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				1834 ± 113.0	1578 ± 53.3
Positive Control ⁴	2046 ± 27.7	1659 ± 48.8	1495 ± 10.7		

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Test Type: Genetic Toxicology - Bacterial
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Test Compound: Benzo(a)pyrene

CAS Number: 119-53-9

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	91 ± 2.6	114 ± 6.3
10.0	98 ± 12.5	
33.0	115 ± 8.1	105 ± 2.8
100.0	73 ± 4.0	85 ± 1.7
333.0	74 ± 9.1	85 ± 5.1
667.0		92 ± 5.7
1000.0	70 ± 8.4 ^s	85 ± 7.7 ^s
Trial Summary	Negative	Negative
Positive Control ²	2278 ± 50.2	1816 ± 115.1
Positive Control ³		
Positive Control ⁴		

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	22 ± 3.2	17 ± 2.2	24 ± 0.9	10 ± 0.3	10 ± 3.1
10.0	27 ± 0.7			12 ± 3.5	
33.0	28 ± 1.7	20 ± 2.6	31 ± 2.1	13 ± 0.9	11 ± 1.7
100.0	28 ± 4.4	24 ± 2.5	29 ± 4.4	8 ± 1.5	10 ± 1.0
333.0	32 ± 3.0	32 ± 3.5	34 ± 5.4	9 ± 2.1	9 ± 1.5
667.0		31 ± 2.2 ^s	34 ± 5.8 ^s		8 ± 1.3
1000.0	23 ± 0.6 ^s	25 ± 2.4 ^s	24 ± 2.8 ^s	10 ± 0.3 ^s	9 ± 1.5 ^s
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				195 ± 4.2	82 ± 0.3
Positive Control ⁴	1374 ± 49.6	1154 ± 9.1	1117 ± 59.2		

Experiment Number: 921535

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: 09/17/2018

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 2.6	12 ± 2.1
10.0	12 ± 0.9	
33.0	9 ± 2.9	11 ± 1.3
100.0	16 ± 0.9	9 ± 1.0
333.0	11 ± 0.7	11 ± 0.6
667.0		8 ± 2.0
1000.0	11 ± 1.5 ^s	8 ± 1.5 ^s
Trial Summary	Negative	Negative
Positive Control ²	156 ± 10.2	151 ± 4.7
Positive Control ³		
Positive Control ⁴		

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G06: Ames Summary Data

Date Report Requested: 09/17/2018

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

Time Report Requested: 06:43:43

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	9 ± 2.6	6 ± 0.3	4 ± 1.2	11 ± 1.8	7 ± 0.0
10.0	6 ± 1.5		7 ± 2.0		7 ± 1.7
33.0	7 ± 1.7	6 ± 0.6	8 ± 2.4	8 ± 0.9	8 ± 1.5
100.0	5 ± 0.3	6 ± 1.2	9 ± 1.3	8 ± 1.8	8 ± 0.3
333.0	5 ± 0.0	6 ± 0.7	7 ± 1.7	6 ± 1.8	5 ± 0.7
667.0		7 ± 0.9 ^s		7 ± 1.2	
1000.0	3 ± 0.0 ^s	4 ± 1.0 ^s	4 ± 1.2 ^s	5 ± 1.2 ^s	5 ± 0.6 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					226 ± 14.4
Positive Control ³			138 ± 4.8	144 ± 18.0	
Positive Control ⁵	1017 ± 16.8	314 ± 59.5			

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Test Compound: Benzoin
CAS Number: 119-53-9

Date Report Requested: 09/17/2018
Time Report Requested: 06:43:43

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.0
10.0	
33.0	9 ± 1.5
100.0	9 ± 1.9
333.0	8 ± 1.5
667.0	7 ± 1.8
1000.0	6 ± 1.2 ^s
Trial Summary	Negative
Positive Control ²	189 ± 58.3
Positive Control ³	
Positive Control ⁵	

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

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CAS Number: 119-53-9

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 ± 0.3	20 ± 2.2	28 ± 1.5	31 ± 2.4	21 ± 1.9
10.0	14 ± 1.5		24 ± 2.7		28 ± 3.8
33.0	19 ± 3.1	22 ± 1.7	29 ± 2.4	27 ± 2.3	27 ± 2.3
100.0	16 ± 3.0	17 ± 0.9	27 ± 0.7	27 ± 5.5	26 ± 2.7
333.0	13 ± 3.3	14 ± 4.7	28 ± 4.4	24 ± 4.6	29 ± 4.4
667.0		19 ± 3.2 ^s		28 ± 3.8	
1000.0	13 ± 2.8 ^s	15 ± 2.5 ^s	18 ± 2.0 ^s	21 ± 2.1 ^s	20 ± 4.2 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1945 ± 46.4
Positive Control ³			1350 ± 37.6	1050 ± 63.5	
Positive Control ⁶	899 ± 15.3	1877 ± 169.4			

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Test Compound: Benzoin
CAS Number: 119-53-9

Date Report Requested: 09/17/2018
Time Report Requested: 06:43:43

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	24 ± 4.5
10.0	
33.0	29 ± 1.5
100.0	28 ± 1.0
333.0	20 ± 5.0
667.0	21 ± 1.0
1000.0	21 ± 0.6 ^s
Trial Summary	Negative
Positive Control ²	2132 ± 106.5
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

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****