

Experiment Number: 338241

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

G06: Ames Summary Data

Test Compound: **Phenobarbital**

CAS Number: **50-06-6**

Date Report Requested: **09/12/2018**

Time Report Requested: **22:42:17**

NTP Study Number:

338241

Study Result:

Weakly Positive

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Test Compound: **Phenobarbital**

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	130 ± 17.1	105 ± 8.7	98 ± 4.1
100.0	126 ± 7.7	97 ± 3.8	84 ± 2.2
333.0	150 ± 3.1	99 ± 6.8	83 ± 0.6
1000.0	162 ± 4.3	95 ± 6.1	92 ± 6.2
3333.0	159 ± 5.5	95 ± 3.8	88 ± 3.1
6666.0	78 ± 5.5 ^s	Toxic	60 ± 7.5 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			923 ± 24.3
Positive Control ³		1216 ± 18.9	
Positive Control ⁴	1039 ± 14.6		

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 5% Rat S9	With 5% Rat S9
Vehicle Control ¹	35 ± 1.2	17 ± 1.5	26 ± 2.5	13 ± 2.6	12 ± 3.5
100.0	30 ± 2.7	23 ± 0.7	26 ± 2.0	21 ± 3.2	14 ± 1.2
333.0	49 ± 7.0	33 ± 3.2	44 ± 5.0	23 ± 1.7	14 ± 3.2
500.0		37 ± 2.4		23 ± 3.3	
1000.0	59 ± 7.0	45 ± 0.9	46 ± 10.2	22 ± 1.9	14 ± 0.3
3333.0	47 ± 4.6	37 ± 3.2	40 ± 2.0 ^s	21 ± 3.4	17 ± 3.5
6666.0	28 ± 3.7 ^s	39 ± 7.0 ^s	40 ± 0.7 ^s	10 ± 1.2 ^s	14 ± 0.0 ^s
Trial Summary	Equivocal	Weakly Positive	Equivocal	Equivocal	Negative
Positive Control ²					
Positive Control ³				128 ± 3.9	121 ± 11.3
Positive Control ⁴	831 ± 16.6	1014 ± 37.9	909 ± 21.7		

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 5% Hamster S9	With 5% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	16 ± 1.5	9 ± 0.6	11 ± 2.3	11 ± 1.2
100.0	15 ± 5.2	11 ± 0.9	14 ± 2.0	11 ± 2.7
333.0	14 ± 1.8	15 ± 2.6	18 ± 1.9	9 ± 1.7
500.0		19 ± 2.3		
1000.0	18 ± 1.3	14 ± 2.4	19 ± 1.7	16 ± 0.7
3333.0	14 ± 1.8	16 ± 0.9	21 ± 3.1	10 ± 0.3
6666.0	Toxic	18 ± 1.5 ^s	Toxic	4 ± 1.3 ^s
Trial Summary	Negative	Equivocal	Weakly Positive	Negative
Positive Control ²		126 ± 9.2	137 ± 14.0	105 ± 3.5
Positive Control ³	119 ± 7.3			
Positive Control ⁴				

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	106 ± 8.8	129 ± 8.0	97 ± 4.1
100.0	110 ± 13.5	118 ± 9.0	102 ± 2.9
333.0	116 ± 4.5	126 ± 12.0	108 ± 5.5
1000.0	95 ± 6.0	120 ± 2.0	98 ± 5.4
3333.0	18 ± 2.9	85 ± 17.7	99 ± 8.3
6666.0	1 ± 0.3 ^s	46 ± 18.5 ^s	Toxic
Trial Summary	Negative	Negative	Negative
Positive Control ²			510 ± 12.7
Positive Control ³		631 ± 40.0	
Positive Control ⁵	936 ± 42.4		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	15 ± 1.8	27 ± 1.5	29 ± 0.9
100.0	16 ± 1.5	28 ± 3.4	26 ± 1.5
333.0	12 ± 0.6	29 ± 1.5	28 ± 3.6
1000.0	18 ± 0.7	33 ± 2.0	27 ± 3.5
3333.0	13 ± 1.5	36 ± 2.6	30 ± 1.9
6666.0	12 ± 2.1 ^s	18 ± 1.9 ^s	21 ± 7.2 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			880 ± 25.6
Positive Control ³		1100 ± 53.7	
Positive Control ⁶	1455 ± 48.1		

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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: 4.0 ug/Plate 9-Aminoacridine

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

s: Slight Toxicity

**** END OF REPORT ****