

Experiment Number: 407817

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

G06: Ames Summary Data

Test Compound: **Phenacetin**

CAS Number: **62-44-2**

Date Report Requested: **09/14/2018**

Time Report Requested: **22:40:13**

NTP Study Number:

407817

Study Result:

Negative

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Test Compound: Phenacetin

CAS Number: 62-44-2

Date Report Requested: 09/14/2018

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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	123 ± 4.6	97 ± 6.8	167 ± 17.6	121 ± 6.8	169 ± 4.9
33.0	114 ± 3.2	96 ± 3.8	162 ± 23.6	121 ± 4.2	137 ± 3.7
100.0	102 ± 5.9	94 ± 6.8	148 ± 4.7	103 ± 5.6	165 ± 4.8
333.0	119 ± 9.1	90 ± 2.6	171 ± 19.9	110 ± 7.4	146 ± 6.7
1000.0	106 ± 5.0	87 ± 7.4	165 ± 8.0	114 ± 2.7	161 ± 2.2
2730.0	111 ± 8.2	90 ± 5.9	141 ± 7.5	105 ± 4.3	174 ± 3.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1227 ± 111.0	1057 ± 174.4	1012 ± 100.6
Positive Control ³	514 ± 9.9	459 ± 23.9			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	122 ± 11.6
33.0	107 ± 6.9
100.0	118 ± 9.3
333.0	109 ± 4.8
1000.0	124 ± 3.7
2730.0	123 ± 11.6
Trial Summary	Negative
Positive Control ²	1818 ± 296.3
Positive Control ³	

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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	5 ± 0.3	6 ± 0.9	4 ± 0.3	6 ± 2.1	4 ± 0.3
33.0	3 ± 0.0	3 ± 0.3	5 ± 0.9	7 ± 1.2	6 ± 0.3
100.0	2 ± 0.6	3 ± 1.2	5 ± 0.6	6 ± 1.2	6 ± 1.2
333.0	4 ± 1.2	4 ± 0.3	3 ± 0.9	4 ± 0.9	5 ± 2.0
1000.0	5 ± 0.9	3 ± 1.3	3 ± 0.3	4 ± 0.9	4 ± 0.9
2730.0	2 ± 0.7	3 ± 0.6	3 ± 1.0	3 ± 0.9	4 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			80 ± 3.8	38 ± 2.1	38 ± 4.7
Positive Control ³	263 ± 12.0	212 ± 33.8			

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Test Compound: Phenacetin
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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	6 ± 3.0
33.0	8 ± 1.3
100.0	7 ± 0.9
333.0	7 ± 0.7
1000.0	5 ± 0.9
2730.0	7 ± 0.6
Trial Summary	Negative
Positive Control ²	30 ± 3.7
Positive Control ³	

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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	3 ± 1.2	2 ± 1.2	5 ± 1.5	6 ± 0.0	6 ± 0.7
33.0	2 ± 0.0	3 ± 0.7	4 ± 0.6	5 ± 0.3	7 ± 2.0
100.0	3 ± 0.3	2 ± 0.9	5 ± 0.9	5 ± 1.0	7 ± 1.2
333.0	5 ± 0.3	3 ± 1.2	7 ± 0.7	5 ± 1.7	9 ± 0.6
1000.0	3 ± 0.6	3 ± 0.6	4 ± 0.7	4 ± 0.3	5 ± 0.9
2730.0	2 ± 0.9	2 ± 0.6	8 ± 1.3	8 ± 1.2	4 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			82 ± 8.2	109 ± 2.3	86 ± 2.3
Positive Control ⁴	871 ± 31.9	398 ± 32.0			

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Test Compound: **Phenacetin**

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	6 ± 1.2
33.0	5 ± 1.2
100.0	4 ± 1.5
333.0	7 ± 1.5
1000.0	7 ± 1.2
2730.0	5 ± 0.6
Trial Summary	Negative
Positive Control ²	107 ± 1.8
Positive Control ⁴	

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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	17 ± 2.2	15 ± 1.9	21 ± 0.3	22 ± 1.2	16 ± 0.7
33.0	15 ± 1.3	9 ± 1.9	17 ± 1.2	21 ± 3.3	19 ± 2.3
100.0	17 ± 1.5	14 ± 1.3	22 ± 4.4	18 ± 2.4	17 ± 2.6
333.0	19 ± 2.7	14 ± 1.5	22 ± 2.7	15 ± 4.3	22 ± 1.7
1000.0	24 ± 1.7	13 ± 4.3	18 ± 2.0	18 ± 1.5	20 ± 1.2
2730.0	18 ± 0.7	15 ± 1.0	23 ± 4.5	23 ± 2.4	25 ± 3.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			735 ± 7.5	626 ± 139.2	894 ± 120.5
Positive Control ⁵	203 ± 19.3	278 ± 25.4			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	19 ± 0.6
33.0	20 ± 2.1
100.0	21 ± 2.3
333.0	17 ± 4.6
1000.0	19 ± 4.7
2730.0	25 ± 2.9
Trial Summary	Negative
Positive Control ²	984 ± 100.2
Positive Control ⁵	

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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: 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 ****