

Experiment Number: 030078

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Phenylbutazone

CAS Number: 50-33-9

Date Report Requested: 09/14/2018

Time Report Requested: 19:07:22

NTP Study Number:

030078

Study Result:

Negative

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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	126 ± 9.3	110 ± 8.1	203 ± 10.4	124 ± 2.7	223 ± 15.6
33.0		102 ± 5.0			
100.0	98 ± 2.7	88 ± 2.3	175 ± 6.2	173 ± 11.0	228 ± 7.7
333.0	85 ± 1.5	80 ± 3.2	194 ± 11.3	161 ± 8.1	201 ± 13.9
1000.0	93 ± 2.3	76 ± 6.9	173 ± 6.2	145 ± 8.2	194 ± 9.9
3333.0	Toxic	Toxic	116 ± 5.1	128 ± 17.8	144 ± 10.2
10000.0	Toxic		152 ± 7.5	102 ± 8.7	153 ± 12.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1973 ± 153.8	805 ± 34.6	1799 ± 82.6
Positive Control ³	673 ± 44.4	226 ± 13.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	130 ± 3.0
33.0	
100.0	125 ± 5.8
333.0	128 ± 11.5
1000.0	142 ± 3.8
3333.0	116 ± 7.4
10000.0	98 ± 9.3
Trial Summary	Negative
Positive Control ²	1729 ± 154.1
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	7 ± 0.7	7 ± 0.9	9 ± 0.6	14 ± 2.3	10 ± 0.9
100.0	7 ± 0.9	11 ± 2.3	7 ± 0.0	16 ± 2.6	9 ± 0.3
333.0	6 ± 0.3	9 ± 1.8	5 ± 2.0	11 ± 1.5	12 ± 0.3
1000.0	7 ± 0.9	9 ± 2.3	9 ± 1.2	14 ± 2.6	8 ± 0.3
3333.0	4 ± 0.6	7 ± 1.5	13 ± 0.6	15 ± 2.4	9 ± 0.6
10000.0	5 ± 0.9	5 ± 0.3	10 ± 1.5	13 ± 1.5	11 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			57 ± 3.0	46 ± 8.2	87 ± 13.1
Positive Control ³	207 ± 8.7	238 ± 3.7			

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Test Compound: Phenylbutazone
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Date Report Requested: 09/14/2018
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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 2.4
100.0	12 ± 1.2
333.0	12 ± 1.2
1000.0	10 ± 0.7
3333.0	14 ± 2.6
10000.0	9 ± 1.9
Trial Summary	Negative
Positive Control ²	72 ± 3.2
Positive Control ³	

Experiment Number: 030078

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Test Compound: Phenylbutazone

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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	6 ± 0.6	6 ± 0.3	7 ± 0.9	11 ± 2.3	5 ± 0.6
100.0	6 ± 0.3	4 ± 1.2	6 ± 0.6	9 ± 0.6	7 ± 0.7
333.0	3 ± 0.6	5 ± 0.9	8 ± 1.2	10 ± 1.2	8 ± 0.7
1000.0	4 ± 0.0	4 ± 0.3	7 ± 0.9	8 ± 1.3	10 ± 0.6
3333.0	2 ± 0.6	2 ± 0.3	8 ± 0.3	11 ± 0.9	6 ± 0.7
10000.0	6 ± 0.7	5 ± 2.1	7 ± 1.2	7 ± 1.9	8 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			83 ± 1.3	52 ± 9.0	140 ± 5.8
Positive Control ⁴	232 ± 64.7	46 ± 2.5			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 2.3
100.0	10 ± 1.5
333.0	12 ± 0.9
1000.0	14 ± 2.0
3333.0	9 ± 1.2
10000.0	11 ± 2.0
Trial Summary	Negative
Positive Control ²	77 ± 17.0
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	12 ± 2.0	13 ± 1.0	26 ± 3.8	24 ± 1.2	26 ± 2.7
100.0	22 ± 3.3	17 ± 3.6	28 ± 0.6	25 ± 0.6	29 ± 3.8
333.0	18 ± 1.3	20 ± 0.9	27 ± 1.5	22 ± 1.8	29 ± 1.0
1000.0	17 ± 2.1	17 ± 1.2	30 ± 4.7	22 ± 2.9	18 ± 1.8
3333.0	19 ± 0.9	17 ± 2.7	22 ± 1.8	20 ± 0.9	20 ± 3.3
10000.0	24 ± 0.9	10 ± 0.3	24 ± 2.1	15 ± 3.7	26 ± 1.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			682 ± 50.4	576 ± 35.3	2408 ± 68.6
Positive Control ⁵	268 ± 14.0	200 ± 8.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	22 ± 3.1
100.0	19 ± 3.5
333.0	24 ± 2.6
1000.0	16 ± 3.2
3333.0	18 ± 0.6
10000.0	15 ± 3.5
Trial Summary	Negative
Positive Control ²	1042 ± 65.2
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 ****