

Experiment Number: 240172

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

G06: Ames Summary Data

Test Compound: **Prednisone**

CAS Number: 53-03-2

Date Report Requested: **09/10/2018**

Time Report Requested: **19:05:46**

NTP Study Number:

240172

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	80 ± 5.2	125 ± 11.9	131 ± 6.1	121 ± 9.5	114 ± 5.4
33.0	76 ± 1.5				118 ± 23.3
100.0	85 ± 5.9		171 ± 3.4	163 ± 0.6	101 ± 3.9
167.0		139 ± 8.5	175 ± 7.9	179 ± 4.4	
333.0	102 ± 4.6	143 ± 4.5	199 ± 2.9	202 ± 3.1	106 ± 2.9
667.0		126 ± 6.8	246 ± 6.2	212 ± 18.4	
1000.0	110 ± 4.6	135 ± 6.8	239 ± 7.8	211 ± 10.7	118 ± 3.6
1667.0		158 ± 8.3	177 ± 11.5	174 ± 10.3	
3333.0	75 ± 8.7 ^p				115 ± 35.0 ^p
Trial Summary	Negative	Negative	Weakly Positive	Weakly Positive	Negative
Positive Control ²					657 ± 13.6
Positive Control ³	811 ± 34.5	1539 ± 138.1	1328 ± 26.4	1533 ± 79.2	

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	219 ± 4.9	125 ± 9.0	185 ± 17.4	159 ± 3.8
33.0	243 ± 5.5	111 ± 6.7	196 ± 10.4	225 ± 11.0
100.0	213 ± 8.6	143 ± 15.3	214 ± 11.2	230 ± 7.8
167.0				
333.0	219 ± 1.0	216 ± 9.2	238 ± 7.1	237 ± 20.4
667.0				
1000.0	224 ± 8.5	270 ± 12.0	256 ± 3.2	244 ± 9.8
1667.0				
3333.0	234 ± 15.9 ^p	325 ± 50.0 ^p	288 ± 5.2 ^p	411 ± 11.7
Trial Summary	Negative	Positive	Weakly Positive	Positive
Positive Control ²	2249 ± 35.8	2192 ± 63.4	2371 ± 193.6	2007 ± 105.6
Positive Control ³				

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.2	14 ± 1.0	15 ± 0.9
33.0	6 ± 1.0	8 ± 1.7	12 ± 4.4
100.0	4 ± 1.0	11 ± 3.2	11 ± 3.0
333.0	6 ± 0.7	9 ± 1.5	7 ± 0.9
1000.0	6 ± 1.5	7 ± 1.5	5 ± 1.5
3333.0	1 ± 0.7 ^p	3 ± 1.2 ^p	1 ± 0.6 ^p
Trial Summary	Negative	Negative	Negative
Positive Control ²		43 ± 1.7	331 ± 44.4
Positive Control ³	376 ± 57.3		

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	5 ± 0.3	8 ± 2.3	10 ± 1.7
33.0	6 ± 0.3	6 ± 0.7	9 ± 2.6
100.0	9 ± 1.0	9 ± 2.3	8 ± 0.9
333.0	5 ± 2.1	5 ± 1.9	8 ± 1.9
1000.0	7 ± 1.8	7 ± 1.3	8 ± 0.9
3333.0	2 ± 1.2 ^p	3 ± 1.2 ^p	3 ± 0.3 ^p
Trial Summary	Negative	Negative	Negative
Positive Control ²		48 ± 2.8	320 ± 5.9
Positive Control ⁴	139 ± 50.1		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	17 ± 4.2	18 ± 2.5	25 ± 1.2	22 ± 1.9	26 ± 3.5
33.0	9 ± 2.8	18 ± 2.5	29 ± 0.6	20 ± 2.6	24 ± 1.5
100.0	15 ± 0.7	20 ± 2.1	23 ± 0.7	20 ± 4.6	26 ± 1.5
333.0	18 ± 1.5	18 ± 1.3	29 ± 3.8	126 ± 17.9	103 ± 1.7
1000.0	19 ± 1.2	19 ± 3.2	24 ± 2.9	180 ± 12.0	187 ± 4.4
3333.0	6 ± 1.3 ^p	15 ± 0.9 ^p	28 ± 4.0 ^p	135 ± 22.9 ^p	161 ± 26.2 ^p
Trial Summary	Negative	Negative	Negative	Positive	Positive
Positive Control ²		457 ± 34.6	919 ± 58.5	1702 ± 82.0	1722 ± 60.9
Positive Control ⁵	185 ± 19.9				

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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

p: Precipitate

**** END OF REPORT ****