

Experiment Number: 075951

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Caffeine

CAS Number: 58-08-2

Date Report Requested: 09/11/2018

Time Report Requested: 00:38:04

NTP Study Number:

075951

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	124 ± 11.0	116 ± 7.0	136 ± 9.8	106 ± 8.8	118 ± 3.7
100.0	112 ± 7.6	111 ± 6.4	147 ± 14.7	129 ± 4.3	130 ± 2.6
333.3	110 ± 11.3	98 ± 3.2	126 ± 2.3	109 ± 2.4	124 ± 18.9
1000.0	103 ± 3.5	95 ± 6.5	140 ± 6.7	118 ± 6.9	130 ± 8.1
3333.3	99 ± 8.2	94 ± 3.1	137 ± 5.5	97 ± 9.0	112 ± 15.4
10000.0	87 ± 3.5	92 ± 3.8	130 ± 16.4	91 ± 7.4	110 ± 4.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	445 ± 4.2	343 ± 9.8			
Positive Control ³			786 ± 35.5	571 ± 39.1	1784 ± 84.0

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	113 ± 12.1
100.0	108 ± 10.3
333.3	102 ± 6.9
1000.0	108 ± 5.7
3333.3	95 ± 15.1
10000.0	79 ± 5.8
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1802 ± 54.8

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CAS Number: 58-08-2

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	13 ± 0.3	13 ± 2.0	13 ± 1.0	6 ± 0.7	10 ± 1.8
100.0	17 ± 1.0	15 ± 1.2	14 ± 1.2	6 ± 1.5	11 ± 1.2
333.3	12 ± 1.3	15 ± 3.9	9 ± 4.1	5 ± 0.6	6 ± 0.6
1000.0	19 ± 2.9	13 ± 1.9	5 ± 0.9	4 ± 1.3	9 ± 1.5
3333.3	14 ± 1.0	8 ± 0.7	10 ± 2.8	6 ± 0.9	5 ± 0.3
10000.0	11 ± 2.7	11 ± 2.7	8 ± 2.1	6 ± 1.3	6 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	395 ± 22.6	370 ± 5.2			
Positive Control ⁴			256 ± 20.8	266 ± 8.7	432 ± 21.2

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 2.5
100.0	9 ± 1.5
333.3	6 ± 0.7
1000.0	4 ± 0.3
3333.3	6 ± 1.5
10000.0	4 ± 1.5
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	429 ± 27.5

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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	4 ± 0.3	4 ± 1.2	5 ± 1.2	6 ± 1.2	9 ± 0.3
100.0	7 ± 1.2	5 ± 0.7	9 ± 0.3	5 ± 0.6	7 ± 0.9
333.3	6 ± 0.9	3 ± 0.7	9 ± 3.0	7 ± 0.9	7 ± 0.6
1000.0	5 ± 0.9	5 ± 1.3	9 ± 2.0	6 ± 1.2	8 ± 0.7
3333.3	9 ± 3.2	5 ± 1.5	5 ± 1.5	5 ± 0.9	7 ± 0.9
10000.0	6 ± 0.9	4 ± 1.2	6 ± 0.9	5 ± 1.9	7 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			111 ± 8.5	142 ± 14.4	510 ± 44.3
Positive Control ⁵	201 ± 58.9	89 ± 5.4			

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Date Report Requested: 09/11/2018
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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	6 ± 0.3
100.0	6 ± 0.7
333.3	4 ± 0.3
1000.0	6 ± 0.9
3333.3	7 ± 0.9
10000.0	10 ± 0.9
Trial Summary	Negative
Positive Control ⁴	239 ± 33.3
Positive Control ⁵	

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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	20 ± 3.7	20 ± 3.8	35 ± 4.4	31 ± 2.9	31 ± 3.1
100.0	28 ± 0.9	29 ± 4.9	27 ± 0.6	39 ± 3.9	33 ± 1.5
333.3	19 ± 3.3	23 ± 1.8	26 ± 1.2	34 ± 2.3	28 ± 0.7
1000.0	27 ± 2.1	27 ± 0.3	33 ± 1.5	23 ± 1.7	34 ± 3.3
3333.3	24 ± 2.0	27 ± 3.2	32 ± 1.3	31 ± 6.7	28 ± 2.6
10000.0	26 ± 0.7	23 ± 1.9	26 ± 0.9	28 ± 1.8	28 ± 2.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			399 ± 14.2	448 ± 22.1	1305 ± 62.3
Positive Control ⁶	727 ± 19.7	673 ± 21.1			

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Date Report Requested: 09/11/2018
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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	30 ± 2.0
100.0	32 ± 3.8
333.3	31 ± 3.5
1000.0	33 ± 4.4
3333.3	29 ± 2.6
10000.0	25 ± 2.0
Trial Summary	Negative
Positive Control ³	1652 ± 43.7
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: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****