

Experiment Number: 743044

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Castor oil

CAS Number: 8001-79-4

Date Report Requested: 09/17/2018

Time Report Requested: 06:13:11

NTP Study Number:

743044

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	110 ± 8.7	92 ± 10.3	126 ± 5.9	86 ± 3.1	131 ± 14.4
100.0	130 ± 14.6	91 ± 4.2	159 ± 4.4	84 ± 9.9	142 ± 3.5
333.0	127 ± 13.5	98 ± 6.9	122 ± 14.8	89 ± 1.7	143 ± 11.9
1000.0	127 ± 10.7	81 ± 8.7	139 ± 17.8	88 ± 10.5	154 ± 1.5
3333.0	109 ± 12.8	98 ± 7.3	132 ± 13.3	84 ± 4.4	139 ± 11.7
10000.0	101 ± 5.4	83 ± 6.6	154 ± 3.9	86 ± 15.3	132 ± 13.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	461 ± 44.5	437 ± 5.5			
Positive Control ³			614 ± 39.7	524 ± 30.6	1245 ± 92.4

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	89 ± 7.2
100.0	116 ± 7.0
333.0	91 ± 5.2
1000.0	94 ± 3.5
3333.0	86 ± 6.9
10000.0	93 ± 3.0
Trial Summary	Negative
Positive Control ²	
Positive Control ³	555 ± 16.3

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	21 ± 2.4	25 ± 4.7	7 ± 0.6	10 ± 1.9	8 ± 0.3
100.0	24 ± 1.5	20 ± 2.5	11 ± 2.1	11 ± 1.2	9 ± 0.3
333.0	25 ± 2.4	19 ± 4.2	8 ± 0.3	9 ± 2.4	12 ± 0.7
1000.0	23 ± 1.0	24 ± 3.3	9 ± 1.5	6 ± 0.3	10 ± 1.2
3333.0	24 ± 3.2	22 ± 2.3	9 ± 0.3	4 ± 0.3	9 ± 0.7
10000.0	22 ± 1.9	25 ± 3.5	8 ± 0.7	12 ± 0.9	8 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	433 ± 6.1	435 ± 9.3			
Positive Control ⁴			215 ± 9.9	167 ± 13.5	498 ± 12.2

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 1.5
100.0	12 ± 2.2
333.0	10 ± 2.8
1000.0	11 ± 1.5
3333.0	8 ± 2.9
10000.0	8 ± 2.0
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	544 ± 34.6

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	121 ± 3.2	102 ± 4.7	173 ± 11.7	180 ± 13.7	162 ± 2.3
100.0	133 ± 3.2	127 ± 8.4	180 ± 9.5	189 ± 9.4	177 ± 2.7
333.0	125 ± 8.0	131 ± 3.2	179 ± 11.3	191 ± 4.5	173 ± 13.9
1000.0	141 ± 6.1	137 ± 3.2	152 ± 8.5	171 ± 9.8	156 ± 10.8
3333.0	157 ± 6.9	129 ± 6.8	155 ± 10.4	184 ± 4.7	179 ± 11.0
10000.0	140 ± 12.0	134 ± 6.1	166 ± 8.4	169 ± 9.0	183 ± 6.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			1213 ± 19.9	1053 ± 37.0	1748 ± 53.5
Positive Control ⁵	902 ± 44.4	1058 ± 81.4			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	139 ± 3.5
100.0	159 ± 11.8
333.0	163 ± 6.4
1000.0	172 ± 14.6
3333.0	150 ± 8.7
10000.0	140 ± 7.0
Trial Summary	Negative
Positive Control ⁴	1163 ± 22.3
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	15 ± 0.6	14 ± 2.3	26 ± 2.9	30 ± 1.2	30 ± 0.6
100.0	12 ± 1.0	12 ± 0.3	30 ± 1.9	27 ± 1.2	28 ± 2.2
333.0	14 ± 2.6	11 ± 1.2	30 ± 3.8	27 ± 2.8	27 ± 2.3
1000.0	15 ± 0.3	13 ± 2.7	31 ± 2.6	22 ± 4.8	32 ± 2.4
3333.0	14 ± 2.3	15 ± 0.9	27 ± 3.2	29 ± 0.6	31 ± 3.5
10000.0	14 ± 1.2	12 ± 0.9	26 ± 6.6	26 ± 0.6	32 ± 5.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			333 ± 11.8	298 ± 13.2	959 ± 17.6
Positive Control ⁶	872 ± 8.5	619 ± 41.0			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	25 ± 2.3
100.0	26 ± 3.2
333.0	19 ± 1.5
1000.0	19 ± 0.7
3333.0	17 ± 2.0
10000.0	22 ± 2.5
Trial Summary	Negative
Positive Control ³	282 ± 30.2
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 **