

Experiment Number: 263103

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

G06: Ames Summary Data

Test Compound: **Sodium ricinoleate**

CAS Number: 5323-95-5

Date Report Requested: 09/11/2018

Time Report Requested: 08:06:27

NTP Study Number:

263103

Study Result:

Negative

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Test Compound: Sodium ricinoleate

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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	84 ± 2.3	102 ± 5.3	115 ± 8.2	111 ± 8.1	112 ± 1.7
3.3	83 ± 1.9	98 ± 3.1	113 ± 8.2	102 ± 1.2	97 ± 4.0
10.0	85 ± 4.9	84 ± 3.8	100 ± 1.0	94 ± 2.2	101 ± 7.9
33.3	82 ± 5.3	83 ± 9.7	108 ± 4.0	108 ± 9.4	97 ± 6.1
100.0	78 ± 3.6	78 ± 2.1	105 ± 5.6	95 ± 14.2	86 ± 10.4
333.3	74 ± 8.7	68 ± 2.6 ^s	104 ± 15.9 ^s	92 ± 3.5	74 ± 9.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			593 ± 4.4	627 ± 18.2	1006 ± 58.0
Positive Control ³	519 ± 14.7	526 ± 12.0			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	109 ± 2.0
3.3	92 ± 8.4
10.0	88 ± 2.7
33.3	92 ± 4.9
100.0	76 ± 3.4
333.3	75 ± 3.5 ^s
Trial Summary	Negative
Positive Control ²	1215 ± 16.4
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	20 ± 2.6	25 ± 3.1	9 ± 2.9	9 ± 0.3	13 ± 2.0
3.3	25 ± 1.9	21 ± 3.1	11 ± 3.2	12 ± 2.3	9 ± 1.5
10.0	19 ± 3.3	22 ± 2.5	11 ± 2.9	9 ± 2.3	13 ± 2.3
33.3	21 ± 3.5	18 ± 1.5	8 ± 1.2	7 ± 1.9	13 ± 2.9
100.0	19 ± 2.7	15 ± 1.2	9 ± 1.3	7 ± 1.2 ^s	10 ± 1.0
333.3	20 ± 2.3	16 ± 1.2 ^s	9 ± 0.9 ^s	2 ± 1.2 ^s	9 ± 1.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	512 ± 18.9	444 ± 17.0			
Positive Control ⁴			311 ± 6.4	374 ± 12.8	400 ± 19.3

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	15 ± 1.9
3.3	8 ± 0.3
10.0	14 ± 2.4
33.3	13 ± 0.9
100.0	7 ± 1.0
333.3	8 ± 1.2 ^s
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	458 ± 3.3

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Mutagenicity**G06: Ames Summary Data**

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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	8 ± 1.0	16 ± 1.5	13 ± 3.2	24 ± 4.3	15 ± 1.2
3.3	5 ± 1.3	17 ± 1.9	13 ± 0.7	12 ± 2.6	16 ± 1.8
10.0	10 ± 1.2	22 ± 2.3	11 ± 2.2	17 ± 5.4	13 ± 3.8
33.3	5 ± 1.8	16 ± 1.8	11 ± 1.2	15 ± 1.5	16 ± 1.5
100.0	8 ± 2.6	21 ± 4.3	12 ± 1.5	10 ± 3.2	13 ± 2.1
333.3	5 ± 1.2	10 ± 2.3 ^s	5 ± 1.2 ^s	12 ± 1.9 ^s	9 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			493 ± 132.1	238 ± 45.9	376 ± 12.0
Positive Control ⁵	119 ± 22.5	166 ± 5.6			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	24 ± 1.7
3.3	16 ± 4.7
10.0	19 ± 2.9
33.3	22 ± 3.7
100.0	18 ± 0.3
333.3	16 ± 0.9 ^s
Trial Summary	Negative
Positive Control ⁴	245 ± 7.5
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	23 ± 2.3	46 ± 2.4	34 ± 3.1	60 ± 5.0	46 ± 4.2
3.3	26 ± 3.5	22 ± 3.1	29 ± 4.6	61 ± 3.5	32 ± 0.5
10.0	17 ± 1.8	24 ± 4.0	39 ± 4.7	55 ± 6.4	27 ± 1.5
33.3	17 ± 4.4	23 ± 4.9	30 ± 1.2	55 ± 5.5	24 ± 4.0
100.0	18 ± 1.2	22 ± 3.6	26 ± 6.0	43 ± 0.9	25 ± 2.2
333.3	24 ± 2.1	14 ± 0.3 ^s	23 ± 4.9	34 ± 3.3	29 ± 4.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			798 ± 62.0	509 ± 20.5	1397 ± 41.3
Positive Control ⁶	685 ± 17.8	850 ± 18.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	53 ± 3.4
3.3	28 ± 0.3
10.0	37 ± 9.5
33.3	28 ± 1.5
100.0	33 ± 4.2
333.3	18 ± 1.8
Trial Summary	Negative
Positive Control ²	1170 ± 9.5
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: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

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

s: Slight Toxicity

**** END OF REPORT ****