

Experiment Number: 246429

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1,8-Cineol

CAS Number: 470-82-6

Date Report Requested: 09/10/2018

Time Report Requested: 20:10:22

NTP Study Number:

246429

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	87 ± 8.4	94 ± 7.1	95 ± 0.9	120 ± 8.2	85 ± 4.7
3.3		85 ± 6.0			
10.0		76 ± 6.0			
33.0	92 ± 10.0	79 ± 7.9	83 ± 3.8	127 ± 20.4	92 ± 3.2
100.0	72 ± 3.3	95 ± 11.2	86 ± 5.9	113 ± 16.2	92 ± 4.8
333.0	88 ± 3.5	97 ± 3.2	87 ± 5.8	92 ± 6.5	65 ± 6.5
1000.0	0 ± 0.0		75 ± 8.7	104 ± 6.4	95 ± 4.6
3333.0	0 ± 0.0		Toxic	Toxic	107 ± 8.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1010 ± 63.9	2096 ± 89.8	1639 ± 46.1
Positive Control ³	564 ± 46.0	773 ± 61.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	91 ± 5.5
3.3	
10.0	
33.0	105 ± 15.0
100.0	100 ± 6.4
333.0	88 ± 8.0
1000.0	93 ± 4.8
3333.0	3 ± 3.0
Trial Summary	Negative
Positive Control ²	1834 ± 29.2
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	4 ± 1.5	4 ± 1.2	7 ± 1.2	7 ± 1.3	7 ± 1.9
33.0	4 ± 0.9	4 ± 1.2	6 ± 1.0	6 ± 0.3	7 ± 1.2
100.0	4 ± 1.2	4 ± 0.9	9 ± 2.0	8 ± 2.0	7 ± 0.3
333.0	3 ± 0.7	4 ± 0.7	7 ± 0.9	4 ± 0.7	4 ± 0.7
1000.0	4 ± 0.9	3 ± 0.6	3 ± 0.3	Toxic	3 ± 0.3
3333.0	Toxic	Toxic	5 ± 0.0	Toxic	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			42 ± 1.9	157 ± 27.8	70 ± 12.2
Positive Control ³	534 ± 24.3	1260 ± 85.5			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 3.3
33.0	6 ± 0.9
100.0	8 ± 1.0
333.0	4 ± 1.9
1000.0	5 ± 1.3
3333.0	Toxic
Trial Summary	Negative
Positive Control ²	180 ± 39.4
Positive Control ³	

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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	2 ± 0.9	4 ± 1.8	6 ± 1.2	10 ± 2.6	6 ± 0.9
3.3		7 ± 2.1			
10.0		8 ± 3.6		6 ± 1.7	
33.0	3 ± 0.3	6 ± 1.3	5 ± 0.9	7 ± 1.5	5 ± 0.9
100.0	3 ± 0.6	5 ± 0.5	6 ± 0.9	5 ± 0.7	4 ± 1.0
333.0	2 ± 0.3	Toxic	3 ± 0.9	7 ± 2.5	4 ± 2.7
1000.0	0 ± 0.0		3 ± 0.9	3 ± 1.9	1 ± 0.3
3333.0	0 ± 0.0		0 ± 0.3		0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			53 ± 13.6	246 ± 43.8	90 ± 23.0
Positive Control ⁴	67 ± 8.2	287 ± 56.6			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.0
3.3	
10.0	9 ± 0.6
33.0	9 ± 2.1
100.0	8 ± 3.4
333.0	7 ± 1.9
1000.0	2 ± 2.0
3333.0	
Trial Summary	Negative
Positive Control ²	137 ± 15.0
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	16 ± 1.7	19 ± 2.6	18 ± 1.8	27 ± 4.4	20 ± 0.7
10.0		19 ± 2.1			
33.0	12 ± 1.2	14 ± 2.3	22 ± 3.2	27 ± 3.7	13 ± 1.0
100.0	8 ± 0.3	15 ± 3.2	15 ± 0.7	23 ± 6.2	18 ± 2.0
333.0	12 ± 3.2	21 ± 0.9	16 ± 0.6	14 ± 2.2	14 ± 1.5
1000.0	Toxic	7 ± 1.5	13 ± 1.0	3 ± 2.0	15 ± 1.2
3333.0	Toxic		Toxic	1 ± 0.5	11 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			669 ± 58.6	1464 ± 22.8	1039 ± 76.5
Positive Control ⁵	149 ± 2.9	242 ± 10.2			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	24 ± 3.8
10.0	
33.0	23 ± 1.5
100.0	20 ± 9.5
333.0	17 ± 4.1
1000.0	0 ± 0.3
3333.0	0 ± 0.0
Trial Summary	Negative
Positive Control ²	2165 ± 45.5
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 **