

Experiment Number: 078959

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Carminic acid

CAS Number: 1260-17-9

Date Report Requested: 09/11/2018

Time Report Requested: 00:59:44

NTP Study Number:

078959

Study Result:

Weakly Positive

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Strain: TA100				
Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	144 ± 4.6	114 ± 13.6	154 ± 6.2	131 ± 9.3
100.0		134 ± 11.1	166 ± 11.3	115 ± 8.0
333.0	189 ± 3.4	162 ± 2.2	174 ± 8.2	170 ± 9.7
1000.0	192 ± 9.4	196 ± 13.9	172 ± 8.7	167 ± 7.5
1666.0	221 ± 9.2			
3333.0	220 ± 5.5	179 ± 8.7	165 ± 2.7	169 ± 10.3
6666.0		136 ± 4.8 ^p		
10000.0	162 ± 6.2 ^p		152 ± 5.0 ^p	133 ± 3.8 ^p
Trial Summary	Weakly Positive	Weakly Positive	Negative	Equivocal
Positive Control ²				680 ± 44.4
Positive Control ³	286 ± 14.6	441 ± 11.2		
Positive Control ⁴			430 ± 20.2	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9
Vehicle Control ¹	35 ± 1.5	25 ± 1.5
100.0	36 ± 2.0	24 ± 2.3
333.0	39 ± 2.3	19 ± 0.7
1000.0	31 ± 1.9	24 ± 3.5
3333.0	32 ± 4.1	23 ± 2.7
10000.0	37 ± 3.3	12 ± 2.3
Trial Summary	Negative	Negative
Positive Control ³	165 ± 1.2	469 ± 53.3

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Strain: TA98

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	18 ± 3.9	32 ± 4.8	31 ± 1.0	28 ± 3.9	51 ± 1.2
100.0		30 ± 0.6	38 ± 0.6	44 ± 4.9	43 ± 3.7
333.0	21 ± 3.8	39 ± 2.8	36 ± 0.3	61 ± 6.9	39 ± 1.0
1000.0	28 ± 1.5	41 ± 1.8	41 ± 2.2	45 ± 2.6	48 ± 6.0
1666.0	23 ± 1.3				
3333.0	22 ± 0.9	38 ± 1.2	39 ± 2.3	30 ± 5.2	41 ± 2.0
10000.0	21 ± 3.6 ^p	29 ± 3.8 ^p	34 ± 2.6 ^p	47 ± 9.3 ^p	51 ± 1.9 ^p
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²		636 ± 33.0	300 ± 13.7	108 ± 3.9	197 ± 9.4
Positive Control ⁵	602 ± 12.0				

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	30 ± 6.1
100.0	29 ± 4.9
333.0	26 ± 2.0
1000.0	25 ± 2.4
1666.0	
3333.0	28 ± 3.0
10000.0	36 ± 4.9 ^p
Trial Summary	Negative
Positive Control ²	340 ± 10.9
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: 1.0 ug/Plate Sodium Azide
- 4: 2.0 ug/Plate 2-Aminoanthracene
- 5: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- p: Precipitate

** END OF REPORT **