

Experiment Number: 861210

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

G06: Ames Summary Data

Test Compound: **Carminic acid**

CAS Number: **1260-17-9**

Date Report Requested: **09/16/2018**

Time Report Requested: **13:46:51**

NTP Study Number:

861210

Study Result:

Weakly Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9
Vehicle Control ¹	117 ± 15.6	160 ± 4.2	150 ± 13.0	133 ± 8.1	151 ± 13.5
100.0	133 ± 4.2			142 ± 5.8	124 ± 11.5
333.0	146 ± 11.0			157 ± 6.1	162 ± 7.5
666.0				153 ± 1.5	143 ± 1.5
1000.0	123 ± 11.4			142 ± 10.9	141 ± 0.9
3333.0	136 ± 1.5	174 ± 11.7	169 ± 10.5	147 ± 3.4	130 ± 10.1
5000.0		171 ± 19.0 ^x	185 ± 6.8 ^x		
6666.0				165 ± 2.5 ^x	163 ± 7.3 ^x
7500.0		211 ± 11.2 ^x	231 ± 24.5 ^x		
10000.0	234 ± 7.8 ^p	229 ± 2.8 ^p	275 ± 13.9 ^p	120 ± 15.8 ^p	174 ± 10.9 ^p
12500.0		213 ± 3.0 ^p	271 ± 18.9 ^p		
Trial Summary	Equivocal	Weakly Positive	Weakly Positive	Negative	Negative
Positive Control ²					
Positive Control ³				1662 ± 26.4	1653 ± 11.8
Positive Control ⁴	337 ± 13.2	361 ± 7.6	453 ± 34.8		
Positive Control ⁵					

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 5% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	131 ± 14.7	142 ± 9.5	154 ± 11.0	150 ± 2.0	137 ± 3.1
100.0	133 ± 3.7	141 ± 17.9	165 ± 9.1	151 ± 7.9	158 ± 9.5
333.0	166 ± 6.5	128 ± 11.4	164 ± 4.2	146 ± 3.2	159 ± 11.5
666.0		153 ± 12.9	157 ± 9.5	158 ± 10.3	143 ± 5.5
1000.0	149 ± 6.2	146 ± 5.9	163 ± 5.1	154 ± 4.1	163 ± 2.4
3333.0	163 ± 11.5	123 ± 5.6	158 ± 14.5	165 ± 4.7	151 ± 1.3
5000.0					
6666.0		178 ± 10.5 ^x	217 ± 3.8 ^x	181 ± 2.4 ^x	170 ± 4.8 ^x
7500.0					
10000.0	155 ± 7.2 ^p	181 ± 4.8 ^p	230 ± 8.0 ^p	211 ± 5.5 ^p	168 ± 22.3 ^p
12500.0				244 ± 19.5 ^p	
Trial Summary	Negative	Equivocal	Weakly Positive	Weakly Positive	Negative
Positive Control ²			720 ± 5.2	1019 ± 106.4	501 ± 16.8
Positive Control ³	306 ± 1.0				
Positive Control ⁴					
Positive Control ⁵		1464 ± 76.7			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	143 ± 13.4	160 ± 14.4
100.0	137 ± 13.4	162 ± 5.2
333.0	168 ± 2.7	163 ± 6.1
666.0		170 ± 8.2
1000.0	187 ± 12.7	157 ± 10.1
3333.0	141 ± 4.6	141 ± 23.8
5000.0		
6666.0		147 ± 7.4 ^x
7500.0		
10000.0	141 ± 4.4 ^p	139 ± 16.4 ^p
12500.0		
Trial Summary	Equivocal	Negative
Positive Control ²		
Positive Control ³	538 ± 21.4	412 ± 4.2
Positive Control ⁴		
Positive Control ⁵		

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	19 ± 2.9	15 ± 2.7	15 ± 1.2
100.0	21 ± 1.7	13 ± 1.7	14 ± 1.2
333.0	16 ± 0.3	17 ± 0.6	15 ± 1.5
1000.0	12 ± 0.9	14 ± 1.5	13 ± 0.6
3333.0	18 ± 0.3	15 ± 0.9	12 ± 0.9
10000.0	18 ± 2.3 ^p	16 ± 0.7 ^p	14 ± 1.9 ^p
Trial Summary	Negative	Negative	Negative
Positive Control ⁴	391 ± 6.8		
Positive Control ⁵			419 ± 48.3
Positive Control ⁶		191 ± 5.8	

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	20 ± 5.0	32 ± 4.6	21 ± 2.5
100.0	15 ± 1.8	22 ± 1.8	20 ± 0.9
333.0	16 ± 1.2	30 ± 4.2	28 ± 3.4
1000.0	18 ± 2.0	25 ± 2.9	27 ± 1.5
3333.0	15 ± 2.4	24 ± 3.2	21 ± 1.7
10000.0	29 ± 5.0 ^p	37 ± 3.9 ^p	26 ± 0.9 ^p
Trial Summary	Negative	Negative	Negative
Positive Control ³		130 ± 14.5	297 ± 40.5
Positive Control ⁷	501 ± 9.1		

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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: 0.5 ug/Plate 2-Aminoanthracene
- 3: 1.0 ug/Plate 2-Aminoanthracene
- 4: 1.0 ug/Plate Sodium Azide
- 5: 2.5 ug/Plate 2-Aminoanthracene
- 6: 5.0 ug/Plate 2-Aminoanthracene
- 7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- p: Precipitate
- x: Slight Toxicity and Precipitate

**** END OF REPORT ****