

Experiment Number: 981636

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: alpha-Methyl cinnamaldehyde

CAS Number: 101-39-3

Date Report Requested: 09/18/2018

Time Report Requested: 03:35:43

NTP Study Number:

981636

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% Mouse S9
Vehicle Control ¹	92 ± 8.4	115 ± 4.2	103 ± 5.5	116 ± 5.5	101 ± 7.2
10.0	88 ± 2.6		95 ± 6.0		97 ± 3.7
33.0	91 ± 6.8		104 ± 2.8		99 ± 3.3
100.0	81 ± 2.5	115 ± 3.5	106 ± 11.6	133 ± 2.7	109 ± 6.5
300.0		107 ± 0.6		125 ± 4.3	
333.0	69 ± 3.8		95 ± 5.5		138 ± 5.8
500.0		97 ± 4.4		149 ± 8.6	
700.0		110 ± 7.0		160 ± 4.2	
900.0		111 ± 5.0 ^s		128 ± 9.3 ^s	
1000.0	27 ± 5.7 ^s		76 ± 4.4 ^s		118 ± 11.0 ^s
3333.0					
10000.0					
Trial Summary	Negative	Negative	Negative	Equivocal	Equivocal
Positive Control ²			1226 ± 24.0	349 ± 4.4	1899 ± 49.9
Positive Control ³	327 ± 13.6	347 ± 5.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Mouse S9	With 10% Mouse S9
Vehicle Control ¹	97 ± 5.5	110 ± 5.2
10.0		
33.0		
100.0	89 ± 1.7	103 ± 9.8
300.0		110 ± 5.7
333.0	98 ± 3.5	
500.0		121 ± 2.7
700.0		149 ± 10.7
900.0		172 ± 8.7 ^s
1000.0	99 ± 4.2	
3333.0	104 ± 4.3	
10000.0	9 ± 3.2 ^s	
Trial Summary	Negative	Equivocal
Positive Control ²	1310 ± 99.3	374 ± 8.2
Positive Control ³		

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Strain: TA102

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	242 ± 21.3	244 ± 11.3	292 ± 15.5	242 ± 23.1	344 ± 25.5
10.0	256 ± 1.2		294 ± 33.9		
33.0	252 ± 11.8		288 ± 8.9		
100.0	230 ± 9.0	220 ± 9.5	249 ± 23.5	292 ± 21.2	363 ± 25.8
300.0		190 ± 6.2			335 ± 34.8
333.0	226 ± 3.2		250 ± 8.5	312 ± 12.4	
500.0		150 ± 6.7			360 ± 12.1
700.0		158 ± 12.2			326 ± 18.0
900.0		185 ± 9.2 ^s			259 ± 24.6 ^s
1000.0	14 ± 7.5 ^s		109 ± 44.5 ^s	298 ± 11.0	
3333.0				255 ± 15.5	
10000.0				142 ± 36.3 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴	780 ± 26.8	1564 ± 51.6			
Positive Control ²			383 ± 40.7	408 ± 22.1	
Positive Control ⁵					612 ± 27.5

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Strain: TA102

Dose (ug/Plate)	With 10% Mouse S9	With 10% Mouse S9
Vehicle Control ¹	285 ± 18.6	343 ± 21.5
10.0		
33.0		
100.0	271 ± 13.5	315 ± 26.6
300.0		329 ± 12.8
333.0	301 ± 15.2	
500.0		314 ± 7.9
700.0		281 ± 1.8
900.0		246 ± 22.8 ^s
1000.0	241 ± 7.2	
3333.0	281 ± 16.5	
10000.0	195 ± 15.7 ^s	
Trial Summary	Negative	Negative
Positive Control ⁴		
Positive Control ²		
Positive Control ⁵	448 ± 19.1	677 ± 22.7

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Strain: TA104

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Mouse S9
Vehicle Control ¹	351 ± 28.6	377 ± 4.5	412 ± 29.7	464 ± 18.8	379 ± 16.4
10.0			382 ± 14.5		384 ± 33.7
33.0			370 ± 10.7		380 ± 18.0
100.0	342 ± 20.5	343 ± 10.4	351 ± 4.3	447 ± 12.5	370 ± 21.6
300.0		352 ± 2.7		419 ± 18.8	
333.0	358 ± 22.2		321 ± 7.9		370 ± 10.5
500.0		234 ± 11.5		368 ± 12.4	
700.0		197 ± 10.1		337 ± 13.5	
900.0		282 ± 34.5 ^s		360 ± 10.7 ^s	
1000.0	376 ± 3.8		169 ± 20.7 ^s		223 ± 8.7 ^s
3333.0	355 ± 7.6				
10000.0	228 ± 9.5 ^s				
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					
Positive Control ²			1105 ± 20.8	715 ± 12.9	1491 ± 194.8
Positive Control ⁶	835 ± 60.5	958 ± 21.5			

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Strain: TA104

Dose (ug/Plate)	With 10% Mouse S9
Vehicle Control ¹	391 ± 15.2
10.0	
33.0	
100.0	351 ± 7.6
300.0	355 ± 6.3
333.0	
500.0	348 ± 5.6
700.0	350 ± 25.2
900.0	261 ± 17.1 ^s
1000.0	
3333.0	
10000.0	
Trial Summary	Negative
Positive Control ⁴	
Positive Control ²	552 ± 9.8
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 2-Aminoanthracene

3: 100.0 ug/Plate Methyl Methane Sulfonate

4: 0.5 ug/Plate Mitomycin-C

5: 5.0 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate Formaldehyde

s: Slight Toxicity

**** END OF REPORT ****