

Table 2 Larvicidal activity of *C. rigidus* essential oil against 4th instar larvae of *Ae. aegypti*, *An. gambiae* and *Cx. quinquefasciatus* 24 h post exposure

Targeted Mosquito species	Conc.(ppm)	MM±SD (%)	LC ₅₀ (LCL-UCL) (ppm)	LC ₉₀ (LCL-UCL) (ppm)	χ ²
<i>Aedes aegypti</i>	50	32.00±6.92 ^a	66.67	124.39	2.14
	100	70.67±4.61 ^b	(53.38–78.48)	(104.29–163.63)	
	150	97.33±4.61 ^c			
	200	100.00±0.00 ^c			
	250	100.00±0.00 ^c			
	F value	144.41***			
<i>Anopheles gambiae</i>	50	14.67±1.15 ^a	99.61	179.42	5.46
	100	46.67±4.61 ^b	(59.50–136.06)	(132.08–435.97)	
	150	69.33±6.11 ^c			
	200	100.00±0.00 ^d			
	250	100.00±0.00 ^d			
	F value	333.24***			
<i>Culex quinquefasciatus</i>	50	0.00±0.00 ^a	176.81	227.57	9.77
	100	3.67±0.57 ^a	(42.29–327.94)	(185.29–3099.46)	
	150	13.33±2.30 ^b			
	200	69.33±6.11 ^c			
	250	100.00±0.00 ^d			
	F value	702.41***			

Note: MM±SD (%): Mean of mortality ± standard deviation (%); MM±SD within a column followed by the same letter do not differ significantly at P= 0.05 (Duncan's test); ***: p<0.001; LC₅₀ and LC₉₀: Lethal Concentrations able to kill 50% and 90% of larvae, respectively; ppm: parts per million; LCL: Lower Confidence Limit; UCL: Upper Confidence Limit; χ²: Chi-squared; Number of replicates: 4