

Table 5 Log probit and regression analyses of larvicidal activity of crude root extract of *Annona reticulata* against different larval instars of *Culex quinquefasciatus*

Instars	Period (h)	LC ₅₀ (ppm)	LC ₉₀ (ppm)	Regression equations	R ² - values
1 st	24	0.0071	0.0201	Y=6.70+76.67X	0.73
	48	0.0064	0.0148	Y=7.80+53.33X	0.63
	72	0.0074	0.0100	Y=9.20+20.00X	0.50
2 nd	24	0.0202	0.1068	Y=2.13+120.00X	0.92
	48	0.0169	0.0826	Y=2.67+120.00X	0.88
	72	0.0131	0.0440	Y=3.33+133.33X	0.93
3 rd	24	0.019	0.1062	Y=2.37+116.67X	0.89
	48	0.0158	0.1012	Y=3.07+106.67X	0.88
	72	0.0116	0.0590	Y=4.00+106.67X	0.84
4 th	24	0.0359	0.3610	Y=1.73+86.67X	0.89
	48	0.0280	0.3474	Y=2.37+83.33X	0.88
	72	0.0212	0.1822	Y=2.57+96.67X	0.88

LC = Lethal Concentration, R² = Co efficient of determination