

Table 5 Log probit and regression analyses of larvicidal activity of acetone leaf extract of *Annona reticulata* against different larval instars forms of *Anopheles stephensi*

Larval instars	Period of bioassay (h)	LC ₅₀ (ppm)	LC ₉₀ (ppm)	Regression equation	R ² value
1 st	24	3.5566	16.3824	Y=9.4725+8.5846X	0.9269
	48	2.7607	10.4802	Y=10.5358+9.9304X	0.9207
	72	2.1281	7.1404	Y=17.2367+10.0697X	0.8603
2 nd	25	4.0617	14.8011	Y=2.5084+9.4044X	0.9761
	48	3.0146	12.6598	Y=10.4039+9.3731X	0.9234
	72	2.1346	8.4345	Y=18.8279+9.4974X	0.8325
3 rd	24	3.9441	14.0545	Y=3.3685+8.8786X	0.9652
	28	2.8508	10.5949	Y=11.1990+9.6051X	0.8933
	72	2.1344	6.9520	Y=16.7718+10.1937X	0.8694
4 th	24	8.5667	50.5542	Y=2.5978+5.6770X	0.9479
	48	7.2018	42.8085	Y=3.9626+6.2019X	0.9477
	72	4.2790	31.3404	Y=15.1023+6.3420X	0.7822

Note: LC: Lethal Concentration, R²= Coefficient of determination, X= Concentration Y= Mortality