

عنوان مقاله:

Control of Mosquito Larva Using Bark Extracts of Gmelina arborea

محل انتشار:

فصلنامه روشهای تصفیه محیط, دوره 6, شماره 2 (سال: 1397)

تعداد صفحات اصل مقاله: 4

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خلاصه مقاله:

The application of plant derived pesticides for the control of vectors and pathogen have become global. Notwithstanding, synthetic therapies have been most applied, but it poses some ecotoxic problem when misapplied. The biocidal activities of 3 solvent (chloroform, Methanol and Ethanol), bark extracts of Gmelina arborea was investigated against vectors of malaria (Anopheles Gambiae). Results show that the chloroform extract has LC50 value of 4.90 ppm. Furthermore, the ethanol and methanolic extracts had LC50 values of 4.00 and 2.20 ppm respectively. Therefore, the order of activities of the bark extracts of G. arborea were chloroform> ethanol> methanol. Based on results of this study, we therefore recommend the plant for the formulation of pesticide for the control of malaria and vector-borne diseases

کلمات کلیدی:

Anopheles Gambiae, Gmelina arborea, Bark extract, Solvents

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