

Screening of seven types Terengganu herbs for their potential antibacterial activity against selected food spencer roorganisms

Abstract

Recently more attention has been directed toward plant extracts and biologically active compounds isolated from popular plant species. Seven types of selected herbs available in Terengganu known as Nilam (*Pogostemon cablin*), Kuda Belang (*Aphelandra squarrosa*), Buah Keras (*Adhatoda vasica*), Sesudu (*Euphorbia nerrifolia*), Lelipan (*Pedilanthus tithymaloides*), Gelenggang (*Casia alata*) and Ekor Kucing (*Uraria picta*) was determined based on the widely used by local Terengganu people as traditional herbal remedies. Methanol, chloroform, and ethyl acetate extracts from these seven herbs were screened for their potential antibacterial activity against food microorganisms (*Escherichia coli*, *Salmonella typhi*, *Staphylococcus aureus* and *Streptococcus pneumonia*). The methanol, chloroform, and ethyl acetate fraction extracts from *Pogostemon cablin*, *Aphelandra squarrosa*, *Adhatoda vasica*, *Euphorbia neriifolia*, *Pedilanthus tithymaloides*, *Casia alata* and *Uraria picta* were exhibited significant antibacterial activity with a range of minimum inhibition concentration (MIC) and minimum bactericidal concentration (MBC) values of 1.56 to 6.25 µg/mL.