

Investigation of antimicrobial effect of Thyme extract on Staphylococcus aureus tet-M

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Evaluation of medicinal plants has shown potential antimicrobial effects which introduced many drugs with antibiotic properties. As there were controversies about antimicrobial action in the literature, this study evaluates the antibacterial effect of Thymus hydro- alcoholic extract. At first, Thymus powder was prepared and its hydro-alcoholic extract was made afterwards. Antimicrobial effects on Staphylococcus aureus Tet M extracts using AntibioGram and disc diffusion method was done and MIC and MBC values of extracts were also tested. The best result is thyme with inhibition zone (13 mm) on Staphylococcus aureus, with MIC and MBC of 25 mg / ml and 50 mg / ml, respectively. The results concluded that the ethanolic extract of Thyme is a potential natural antibacterial agent, however its effect is dependent on the source and extraction method.

Keywords : Thyme, GC/MS, Staphylococcus aureus TetM

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