

Research Article

Evaluation of Antimicrobial Activity of Ethyl Acetate Extract of *Euphorbia neriifolia* Linn. Plant

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Abstract

Down to our writing survey could ascertain, very less information were available on the antimicrobial activities of *Euphorbia neriifolia* Linn. that belong to the family *Euphorbiaceae*. Therefore the aim of the current investigation is to analyse the antimicrobial capabilities of the ethyl acetate extract of *Euphorbia neriifolia* Linn. plant. The antimicrobial effectiveness of ethyl acetate extract of leaves and stem of the plant *Euphorbia neriifolia* (Family: *Euphorbiaceae*) was evaluated against selected pathogenic bacterial strains (*Staphylococcus aureus* (MTCC-3160), *Enterococcus faecalis* (MTCC-439), *Klebsiella pneumonia* (MTCC-432), *Escherichia coli* (MTCC- 40), *Aspergillus niger* (MTCC-281), *Candida albicans* (MTCC-183). The antimicrobial activity was evaluated by well diffusion methods. The ethyl acetate showed better activity against pathogenic bacteria and fungi. Study on *Euphorbia neriifolia* was carried out to standardize its components. The presence of phytochemical screening were also determined. A productive comparability between the physiochemical assessment and antimicrobial activities was observed and the highest activity of plant extract was noticed. The current investigation clearly indicate the presence of antimicrobial properties in the extract of *Euphorbia neriifolia* Linn. plant.

Key words: Antimicrobial activity, *Euphorbia neriifolia*, pathogenic bacterial strain, well diffusion assay

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