

(54) Title of the invention : PHYTOCHEMICAL SCREENING, ANTIMICROBIAL, AND ANTIOXIDANT FREE RADICAL SCAVENGING ACTIVITY OF ORTHOSIPHON PALLIDUS

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(57) Abstract :

The present invention relates to a preparation of ethanolic extract of Orthosiphon pallidus(OPEE) and evaluation for their anti-microbial and anti-oxidant activity. Antimicrobial activity was investigated by using agar well diffusion method The antioxidant activity of OPEE was investigated using various in-vitro models such as 1,1-diphenyl-2-picrylhydrazyl (DPPH), total antioxidant activity, metal chelating activity, superoxide, hydroxyl, nitric oxide and total reducing power. Results showed that the Ethanolic extract was found potent in all in-vitro models. Wherein the ethanolic extract showed the significant scavenging activity against iron chelating activity. It also significantly inhibited hydroxyl & superoxide radicals. Results revealed that the bacterial strain showed highest MIC when compared to fungal strain. The antimicrobial activity of OPEE as estimated by MIC was found nearly equivalent to standard drug Chlorhexidine when used against Staphylococcus aureus, Streptococcus mutans, Bacillus coagulans and Candida albicans.

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