## Phytochemical Screening and Anti-bacterial Activity of Nymphean ouchali Burm.f

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The present study was conducted with the objective of evaluating antiactivity of the plant Nymphean ouchali Burm.f. The aim of the study is to assess the antimicrobial activity and to determine the zone of inhibition of extract on some bacterial strains. In the present study aqueous extract of rhizome and flowers of Nymphean ouchali Burm.f was evaluated for antimicrobial activity against medically important bacterial strains. The anti microbial activity was determined in the extract using agar diffusion method against two Gram positive – Staphylococcus aureus MTCC 121, Streptococcus mutans MTCC 916; and three Gram Negative – Klebsiella pneumoniae MTCC 530, Escherichia coli MTCC 1671 and Proteus vulgaris MTCC 426 human pathogenic bacteria. Zone of inhibition of extract were compared with that of standard (Streptomycin S 25) for anti-bacterial activity. The maximum spectrum of activity was observed against Staphylococcus aureus with zone of inhibition 14mm. The extract contained important phyto constituents such carbohydrates, as flavanoids tannins and alkaloids. These phyto constituents are quantitatively determined by Anthrone method, Aluminium chloride method, Broadhust et al 1978, and Evans 1996 method respectively. Result showed the presence of tannins 41mg/100g, Flavanoids 38mg/100g, carbohydrate 68mg/100g and Alkaloids 51 mg/100g in the Nymphean ouchali extract. The present study claimed Nympheanouchali extract has inhibitory activity Staphylococcus aureus, Escheria coli, Proteus vulgaris, Streptococcus mutans and Klebsiella pneumonae

**Key Words**: Nymphean ouchali, anti microbial activity, Phytoconstituents