

COMPARATIVE IN-VITRO ANTIBACTERIAL AND ANTIFUNGAL ATTRIBUTES OF DIFFERENT SOLVENT EXTRACTS FROM LEAF, BARK, ROOT AND INFLORESCENCE OF *MEMECYLON UMBELLATUM* BURM.**¹SURESH G. KILLEDAR*, ²HARINATH N. MORE, ³RAVIRAJ S. KARADE, ⁴SURYAKANT V. GAIKWAD, ⁵SACHIN S. MALI, ⁶SACHIN S. SALUNKHE**

¹Department of Pharmacognosy, Bharati Vidyapeeth College of pharmacy, Kolhapur – 416 013, Maharashtra, India. ²Department of Pharmaceutical Chemistry, Bharati Vidyapeeth College of pharmacy, kolhapur – 416 013, Maharashtra, India. ³Department of Pharmaceutics, Bharati Vidyapeeth College of pharmacy, Kolhapur – 416 013, Maharashtra, India. ⁴Department of Pharmaceutics, Bharati Vidyapeeth College of pharmacy, Kolhapur – 416 013, Maharashtra, India. ⁵Department of Pharmaceutics, Bharati Vidyapeeth College of pharmacy, Kolhapur – 416 013, Maharashtra, India. ⁶Department of Quality Assurance, Bharati Vidyapeeth College of pharmacy, Kolhapur – 416 013, Maharashtra, India.

Email: sureshgk_64@rediffmail.com

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ABSTRACT

This paper describes the antibacterial and antifungal activities and Minimum Inhibitory Concentration (MIC) of different solvent (pet. ether, chloroform, ethyl acetate, acetone, methanol and water) extracts of leaves, bark, root and inflorescence of *Memecylon umbellatum* burm. The percent yields from leaves, bark, root and inflorescence was found to be 0.2062 to 2.836, 0.0601 to 0.5142, 0.050 to 1.425, 0.0210 to 0.717 respectively. Overall, acetone extract produced from the leaves exhibited significantly ($P < 0.05$) higher antibacterial activity along with superior antifungal activity. MIC for acetone and ethyl acetate extract of leaf was found to be 0.5 mg for the entire organisms compared to 3-15 mg for other extracts. Such study will explore pharmacological activity of the tested parts of *Memecylon umbellatum* burm especially, the leaves which might be valuable for therapeutic applications

Keywords: *Memecylon umbellatum*, Solvent extracts, Antibacterial activity, Antifungal activity, MIC

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