

Phytochemical Screening and Evaluation of Antimicrobial Activity of *Azadirachta Indica* (Neem)

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Abstract: *This study investigates the phytochemical composition and antimicrobial potential of Azadirachta indica (neem) extracts. The Soxhlet method was used for extraction, and the antimicrobial activity was evaluated using the agar well diffusion method. Phytochemical screening confirmed the presence of bioactive compounds such as alkaloids, flavonoids, and phenolic compounds with known antimicrobial properties. The neem extracts exhibited significant antimicrobial activity against a variety of microorganisms, indicating its potential as a natural source of antimicrobial agents.*

Keywords: Antimicrobial Activity, *Azadirachta indica*, Neem extracts, agar diffusion method