

## Phytochemical and Antibacterial Activity of *Chrysanthellum indicum* (Linn) Extracts

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**Abstract :** Infectious diseases are prevalent in developing countries and plant extracts are known to contain bioactive compounds that can be used in the management of these diseases. The entire plant of *Chrysanthellum indicum* (Linn) was air-dried and pulverized into fine powder and then percolated to give ethanol and aqueous extracts. These extracts were phytochemically screened for metabolites and evaluated for antibacterial activity against some pathogenic organisms: *Klebsilla*, pneumonia, *Bacillus subtilis*, and *Pseudomonas aeruginosa* using the agar dilution method. It was found that crude extracts of *C. indicum* revealed the presence of saponins, tannins, alkaloids, steroidal nucleus, cardiac glycosides, and coumarin, while flavonoids and anthraquinones were absent. The Minimum Inhibitory Concentration (MIC) and Minimum Bactericidal Concentration (MBC) of the active extract of *C. indicum* shows that the extract could be a potential source of antibacterial agents.

**Keywords :** antibacterial activity, *Chrysanthellum indicum*, infectious diseases, phytochemical screening

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