

Phytochemical Screening and Evaluation of Antimicrobial and Antioxidant Activity of *Anethum graveolens* L. (Dill) Plant

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Abstract : Medicinal plants and herbs have a great history of their utility as remedy for treatment of variety of ailments. Secondary metabolites present in these plants are responsible for their medicinal activity. In the present investigation, phytochemical screening of aqueous and alcoholic leaf extract of *Anethum graveolens* L. was performed. Total phenolic content and total antioxidant activity of the extracts was quantitatively estimated by Folin-Ciocalteu method and DPPH (1, 1-Diphenyl-2-picryl hydrazyl) method respectively. Qualitative tests suggested that Alkaloids, tannins and phenolic compounds were present in all the extracts of the plant. Aqueous extracts was found to have more phytochemicals as compared to alcoholic extracts. Extract of *Anethum graveolens* L. was found to contain good amount phenolics and exhibited antioxidant activity. The extracts also demonstrated potent antimicrobial activity against selected gram positive and negative bacteria. The study revealed the potential application of *Anethum graveolens* L. (Dill) in medicine and health.

Keywords : *Anethum graveolens* L., antioxidant, antimicrobial activity, medicine and health

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