

In Vitro Assessment of Anti-microbial Properties of *Murraya Koenigii* Extract

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Abstract : Ethnomedicines are more commonly used in underdeveloped and developing countries. These medicines are sometimes more potent in controlling microbial infections than conventional medicines. Medicinal plants have been common practice to cure many diseases for centuries. *Murraya koenigii* is one of these plants and is commonly used in South Asian countries as a flavoring agent in food. To evaluate its anti-microbial activity, six different bacterial strains (*Escherichia coli*, *Staphylococcus aureus*, *Pseudomonas aeruginosa*, *Salmonella typhi*, *Bacillus cereus* and *Klebsiella pneumonia*) were used. N-hexane extract of *Murraya koenigii* leaves shows maximum activity against *Bacillus cereus*. Acetone extract of *Murraya koenigii* shoots showed more efficient activity against *Pseudomonas aeruginosa*. Dichloromethane extracts showed maximum activity against *Bacillus cereus*. Ethanol extract exhibited maximum activity against *Pseudomonas aeruginosa* and *Klebsiella pneumoniae*. The methanol extract of *Murraya koenigii* shoots displayed maximum antibacterial activity against *Bacillus cereus*. Antifungal activity Ethanol extract was more effective against *Candida albicans*.

Keywords : ethnomedicines, bacteria, fungi, *murraya koenigii*, antimicrobial activity

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