

## IN VITRO ANTIMICROBIAL EFFECT OF ADHATODA VASICA ON ESCHERICHIA COLI

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### **ABSTRACT**

*The present survey of this plant reveals that Adhatoda vasica Nees belonging to family Acanthaceae, commonly known as Adosa, is found many regions of India and throughout the world, with a multitude of uses in traditional Ayurveda. Vasica is most well-known for its effectiveness in treating respiratory conditions. Bacterial resistance against traditional antibiotics has posed a major problem nowadays and the phytoconstituents present in medicinal plants has the potential to combat bacterial infections. Leaves of Adhatoda vasica plant were screened for its medicinal property. Antibacterial activity was analyzed by preparing its extracts in different solvents like ethanol, methanol and Distilled water. Results obtained were compared with commercial antibiotic Streptomycin (used as control) on gram negative bacteria (E. coli). The results obtained showed effective results. The positive results of screening of Adhatoda vasica for antimicrobial activity form primary platform for further pharmacological studies.*

**KEYWORDS:** Adosa, Phytoconstituents, Antibiotic, Gram Negative Bacteria

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