



## PHARMACOGNOSTIC & QUALITATIVE SCREENING OF *AILANTHUS EXCELSA* ROXB. LEAVES EXTRACT & SENSITIVITY AGAINST GRAM +VE & GRAM -VE BACTERIAL STRAINS

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### ABSTRACT

The plant *Ailanthus excelsa* Roxb, Family: Simaroubaceae used traditionally in many diseases. In present study phytochemical & pharmacological investigation of *Ailanthus excelsa* leaves extract were performed. The plant was collected from local area of Buldana district & authenticated from botany department. The hydroalcoholic extract of *Ailanthus excelsa* leaves showed the presence of chemical constituents like flavonoids, alkaloids, saponins, phenols, proteins and amino acids. The study involves the preliminary screening and the qualitative tests of extracts. Thin Layer Chromatography was performed to separate non-volatile components from the hydroalcoholic & chloroform leaves extracts of *Ailanthus excelsa* & was observed under UV light which showed separation of individual chemical constituents in the form of bands. Both extracts were screened for antimicrobial screening against gram +ve as well as gram -ve bacterial strains. Antimicrobial results were found very satisfactory and some dilutions showed more potency than standard drug used. We are now planning to make herbal gel of these extracts for suitable activity. We have already sent this sample for anticancer activity to TATA Memorial Center, Mumbai. From present work we have concluded that this plant possess so many diverse pharmacological activities & many important chemical constituents.

**KEYWORDS:** *Ailanthus excelsa*; Phytochemical Screening; Antimicrobial activity; Anticancer; TLC

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