



## PHARMACOGNOSTIC, PHYTOCHEMICAL INVESTIGATION OF *AILANTHUS EXCELSA* BARK & STEM EXTRACTS & SUCCEPTIBILITY AGAINST GRAM +VE & GRAM -VE BACTERIA

Ashwini Vijay Dharmal, Gyaneshwar Gajanan Farkale, S. L. Khan

### ABSTRACT

Over the past decade, herbal and ayurvedic drugs have become a subject of world importance, with both medicinal and economical implications. Thus, a proper scientific evidence or assessment has become the criteria for acceptance of herbal health claims. *Ailanthus excels* Roxb is a tree belonging to family Simaroubaceae, indigenous to central and southern India. Commonly it is known as a plant of Heaven. We have investigated bark & stem hydro alcoholic extract for phytochemical as well as pharmacological screening. Extraction was carried out by using Soxhlet Extraction method by water-methanol (30:70) for 24 hrs. In this bark and stem extract was found to contain chemical constituents like triterpene, alkaloids, glycoside, saponin, tannin, carbohydrate etc. Thin Layer Chromatography was performed to separate individual chemical components from the extracts. The hydro alcoholic extract of stem and bark were evaluated for Anti-microbial activity against gram positive & gram negative strains. The dilutions of extracts were sent for Anti-cancer activity to TATA Memorial, Mumbai. We are on the way to prepare a suitable formulation of this extract according to the activity found in study. From present work it is concluded that this plant possess various pharmacological activities and can hold impressive position in treatment of diverse diseases in future.

**KEYWORDS:** *Ailanthus excelsa* Roxb; Antimicrobial; Anticancer; Phytochemical screening; TLC.

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