

**PHARMACOGNOSTICAL EVALUATION AND PHYTOCHEMICAL
PROFILING OF IMPORTANT PLANT SPECIES *Zizhyphus Oenoplia L.***

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ABSTRACT

The present study was aimed to carry out the pharmacognostic and phytochemical study on the three important medicinal plants available in this area *Ziziphus oenoplia L.* belongs to the family Rhamnaceae. The pharmacognostic study includes the parameters like morphological observations including root length, shoot length, no. of lateral roots, internodes length and leaf surface area was observed and tabulated. The anatomical parameters *viz.*, transverse section of the study plant was observed with the treatment of various chemicals and solvents. Similarly, the powder studies were also carried out. Finally, the qualitative phytochemical studies were carried out to find the presence of secondary metabolites in the extract. The extracts exhibited a variety of important phytochemicals *viz.*, Alkaloids, Tannins, Saponins, oils, Steroids and Terpenoids. Further the anatomical study and powder showed the characteristic colour change and physical changes which determined the genuinity of the species.

Keywords: Phytochemicals, pharmacognosy, Alkaloids, *Zizhyphus oenoplia*