

Pharmacognostic Standardization of Leaves and Roots of *Mollugo nudicaulis* Lam.

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ABSTRACT

The present study deals with the macroscopical and microscopical studies of root and leaf of *Mollugo nudicaulis* Lam. Detailed anatomical characters were observed with section of leaf, young and old root. The anatomy of the leaf and root were studied by taking transverse section. The leaf palisade layer was horizontally transcurrent along the adaxial part of the midrib. The vascular strand was single and circular. The crystals were druses and stomata were anomocytic type. The secondary phloem was a thin continuous cylinder of short radial files of small cells. Secondary xylem was 1.5µm thick. It included two less distinct growth rings. The vessels were semi ring porous. The microscopic studies of the powder revealed the occurrence of fibres, fibre sclereids and vessel elements. Various parameters like powder analysis, fluorescence analysis and physico-chemical constant were studied. These observations would be of immense value in the botanical identification and standardization of the drug in the crude form. This study would help distinguish the drug from its other species.

Key words: Ethnomedicine, fluorescence analysis, *mollugo nudicaulis*, pharmacognosy

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