



MICROMORPHOLOGICAL STUDIES OF *CISSUS QUADRANGULARIS* L.- AN IMPORTANT MEDICINAL PLANT

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ABSTRACT: The micromorphological and anatomical studies of *Cissus quadrangularis* L. (Family Vitaceae) were conducted using both preserved material (maintained in 4% formaldehyde solution) and fresh field collections. The examination of the internal structure yielded significant findings. This study represents the first detailed report on the internal anatomy, dermatology, and vessel structure of *Cissus quadrangularis*. Previous efforts have not attempted to identify or critically evaluate the internal structure and micromorphology of this species. This study aims to fill that gap by systematically collecting and documenting authentic information regarding the plant's micromorphology, botany, microscopy, and pharmacology. Such comprehensive documentation is expected to enhance the understanding of the therapeutic and scientific potential of *C. quadrangularis*, contributing to future research and applications in the field.

Keywords: Anatomy, *Cissus quadrangularis*, micromorphology

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INTRODUCTION

India has an ancient heritage of traditional medicine. They are continuing to do so not only at present but also shall play major role in future. In practice, traditional medicine includes the following components: acupuncture (China), Ayurveda (India), Unani (Arabic countries), traditional birth attendant's medicine, mental healer's medicine, herbal medicine, and various

forms of indigenous medicine. Knowledge of the medicinal plants used in the drugs of traditional systems of medicine (TSM) has been of great significance, especially as a lead for the discovery of new single-molecule medicines for modern system of medicine. Thus, medicinal plants are used in crude or purified form in the preparation of drugs in different systems. *Cissus* is a genus of the Vitaceae family consisting of 800 species divided