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Pharmacognostical, Phytochemical investigations on whole plant of *Cleome chelidonii* Linn

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Abstract : *Cleome chelidonii* Linn. (Family: Capparaceae) is a rare plant grown as perennials throughout dry seasons and widely distributed as a weed in wet places. However, the plant having wide therapeutic properties has not been scientifically validated. In present investigation, the detailed Pharmacognostical study of *Cleome chelidonii* is carried out to lay down the standards which could be useful in future experimental studies. The study includes macroscopy, microscopy, preliminary phytochemical screening, separation and isolation of plant constituents by chromatographic methods, characterization of isolated plant constituents and fluorescence analysis, elemental analysis and spectral studies. These studies provided referential information for correct identification and standardization of this plant material and to differentiate the plant *Cleome chelidonii* from other species of Cleome.

Keywords : *Cleome chelidonii* - Morphology, Histology, Phytochemical studies, Column chromatography, HPTLC.

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