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Comprehensive Macroscopic and Microscopic profiling of *Cassia auriculata* L. in relationship to its Medicinal use

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ABSTRACT:

Background: To understand the anatomical functions of materials and biological specimens through multiple scales is a key foundation for the scientific investigation. Macroscopic and microscopic representation of the plant complementary approaches for the visualization and analysis of objects at vastly different levels of detailed study.

Aim: The prime objective of this work was to envisage and analyse the macro and micro parts of the aerial parts of the *Cassia auriculata* L. to achieve the proper identification and appropriate study in a respective manner.

Method: The aerial parts of *C. auriculata* L. plant were dried in shade for the prevention of degradation due to microbial growth and ground into a fine powder for the fluorescence analysis. The organoleptic evaluation of *C. auriculata* L. involved evaluation of its shape, colour, Odour, size, texture, taste and tangible qualities. Entire microscopical characteristics were observed under the camera compound microscope with the help of OBS studio software.

Result: The results of pharmacognostical observations were conducted in the aerial parts of *C. auriculata* L., a tree, endemic to the southern side and their pharmacognostical studies involves the organoleptic, microscopical and fluorescence evaluation of the aerial parts of the plant.

Conclusion: Organoleptical as well as microscopical parameters of the dried aerial parts of *C. auriculata* L. were studied and described along with the fluorescence evaluation for validating the authentication and identification of crude drug which will help in diagnosis of quality control and pure detection of adulteration in the raw form of drug.

KEYWORDS: Pharmacognostical study, *Cassia auriculata*, Microscopy, OBS, Macroscopy, Fluorescence

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