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Physico Chemical Standardization, Phytochemical

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Analysis and Evaluation of Antioxidant Herbal Tablet**from the Stem Bark of *Ficus Racemosa* Linn**

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ABSTRACT

Research on plants with medicinal properties and identification of the chemical components responsible for their activities have justified the ancient traditional healing wisdom and have proven the enduring healing potential of many plant medicines. In the current study, *Ficus racemosa* Linn. was investigated for the pharmacognostic, physicochemical and preliminary phytochemical studies from the stem bark of *Ficus racemosa* Linn. The Physicochemical analyses reveals values for moisture content, alcohol extractive, water extractive and total ash which are within the World Health Organisation (WHO) standards for crude drug from medicinal plants. Extraction

was carried out by maceration process and screening of the ethanolic extract revealed the presence of alkaloids, carbohydrates, steroids, tannins, proteins and flavonoids. The antioxidant activity was evaluated using DPPH free radical scavenging assay and was found to have significant antioxidant activity. The solid dosage form, tablets were prepared by direct compression method and were further evaluated for physical parameters such as weight variation test, hardness, friability and disintegration time. From the above data, the plant *Ficus racemosa* Linn. dried stem bark possesses anti-oxidant activity which is in agreement with its traditional use.

KEYWORDS: World Health Organisation, maceration process, screening Pharmacognostic, physicochemical and preliminary phytochemical studies.

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