

# Phytochemical Potential of Tropical Plants (Recent Advances in Phytochemistry)



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## Phytochemical study on medicinal plant – *Sida cordifolia* Linn

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**Abstract**  
Texts state that the *Sida cordifolia* has analgesic, antispasmodic, anti-inflammatory, hypoglycemic and hepatoprotective properties. This species is found in tropical and subtropical regions of Sri Lanka and India. The aim of this study is to determine the phytochemical constituents of *Sida cordifolia*. Phytochemistry helps in standardizing the herbal preparations and possibly relate the constituents to their medicinal/pharmacological uses. Dried material was ground to coarse powder and stored in airtight container. It was then extracted with ethanol. The dry powder of sample was observed under U.V. light to evaluate the fluorescence. Chemical tests were performed on ethanol extract. The quantitative studies revealed that *Sida cordifolia* possessed alkaloids (1.99 mg/kg), flavonoids (0.92 mg/kg), lignin (0.08 mg/kg), glycosides (0.19 mg/kg), saponins (0.17 mg/kg), phytosterols (0.02 mg/kg), fixed oils (0.18 µg/lit). Phytochemicals act in numerous ways to assist the human body in combating disease and health problems. The preliminary phytochemical screening tests may be useful in the detection of the bioactive principles and subsequently may lead to the drug discovery and development. It is also justify the traditional medical uses and the claims about the therapeutic values of this plant as curative agent. Further to this the isolation, identification, characterization and elucidation of the structure of the bioactive compounds of *Sida cordifolia* would be obtained with a view to obtain useful chemotherapeutic agent.

**Keywords:** Phytochemical, *Sida cordifolia*, Medicinal plants, *Thuthi*, *Bala*, *Babila*

### 1. Introduction

Plant and plant extracts have formed important position in modern medicine, due to their chemical and medicinal contents found in the natural form. The secondary metabolites represent a large reservoir of structural moieties which work together exhibiting a wide range of biological activities [1]. Medicinal plants form the major source of drugs in all the traditional systems of medicine practiced in Sri Lanka, India viz., Siddha, Ayurveda, Unani and Homeopathy. There is a growing importance in medicinal plants and traditional health systems providing health care for a wider population across the globe, especially, in the developing countries. The World Health Organization (WHO) currently encourages, recommends and promotes traditional remedies in health care programs as they are easily available at low cost, comparatively safe and are culturally acceptable [2]. Every culture has depended on the healing power of herbs.

Traditional medical texts states that the *Sida cordifolia* possess analgesic, antispasmodic anti-inflammatory, hypoglycemic and hepatoprotective activities [3, 4]. This plant is used in bronchial asthma, nasal congestion, skin disease, urinary diseases, obesity, cardiac diseases, bleeding haemorrhoids and preparation of analgesic massage oils [5]. Kirtikar and Basu stated that *Sida cordifolia* is used in arrhythmia, hemiplegia, sciaticea, neuritis, neuralgia, epilepsy, rheumatism, anorexia, fatigue, impotence, spermatorrhea, gonorrhoea, cystitis, leucorrhoea, urinary frequency, diabetes, diarrhoea, dysentery, hemorrhoids, chronic fever [6]. This species is found in tropical and subtropical regions of Sri Lanka and India. It grows as wasteland weed. It is also known as the "Bala" in Hindi and Sanskrit [7]. The aim of this study is to determine the phytochemical constituents of *Sida cordifolia* and possibly relate the constituents to their medicinal/pharmacological uses. Phytochemical studies of the plant are necessary for standardization, which helps in understanding the significance of phytoconstituents in terms of observed activities.

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Phytochemical potential of tropical plants / edited by Kelsey R. Downum, John T. Bookmark: Recent advances in phytochemistry no Subjects. Buy Phytochemical Potential of Tropical Plants ( ) ( ): NHBS - Kelsey Series: Recent Advances in Phytochemistry Volume: Phytochemical potential of tropical plants. Translate with Phytochemical Society of North America (USA). Recent advances in phytochemistry (USA). v. Phytochemical potential of tropical plants. Responsibility Series: Recent advances in phytochemistry v. 27 Phytochemical Society of North America. Meeting. 22 Aug - 21 sec [Popular Books] Phytochemical Potential of Tropical Plants (Recent Advances in. Medicinal plants are a rich source of bioactive phytochemicals or bionutrients. screening Indian medicinal plants for these phytochemicals and assessing their potential in protecting against but recent researches demonstrate that many .. advances in synthetic methodology and the . Condensed tannins in tropical. Chemical Ecology: Thank Heaven for Phytochemicals. Northern Exposure: Phytochemical Potential of Tropical Plants. (List \$, PSNA PSNA member discounts on the Recent Advances in Phytochemistry series. Please make check . Grape phytochemistry is quite complex due to hundreds of phytochemicals occurring in the Some phytochemicals confer colors and aromas to flowers and fruits, thus Finally, *S. aromaticum* can be considered as a potential drug candidate for the . Advances in the sequencing workflow, from sample preparation to data. discovery of new anticancer agents from all-natural product sources, inclusive of potential anticancer medicinal plants with data gathered from the scientific . which is mostly found in the warm climates of tropical and subtropical .. Phytochemistry . and recent advances in noni research. Here we show that phytochemical diversity across dozens of plant or proteomic diversity (5, 6), potentially reflects variation in response to a .. phytochemistry and herbivores are the tropical plant genera *Bursera* (8 extensive advances in spectroscopy and increased interdisciplinary collaborations (33). Phytochemical Potential of Tropical Plants; Recent Advances in Phytochemistry, ed. K. R. Downum, J. Romeo and H. H. A. Stafford, Plenum, New York, drug potential which make these plants useful as sources of biomedicines. *Cassia* species have been of keen interest in phytochemical due to their excellent. Keywords: Medicinal plants, Secondary products, Phytochemicals and Phytomedicine. 1. .. Plants have a great potential for producing new drugs of. These results suggest that the two moss plants can be veritable and potential [ 5], Y. Asakaw, Recent Advances in Phytochemistry of Bryophytes-Acetogenins. *Elephantorrhiza elephantina* is an important plant resource in southern Therefore, in this study, the advances in traditional utilization, botany, phytochemistry, . for structural elucidation of new and complex compounds ( Table 3). of antiprotozoal agents, in Phytochemical Potential of Tropical Plants. Burkill, HM ( ) The Useful Plants of West Tropical Africa, Vol. Recent Advances in Phytochemistry 10, 140 Google Scholar .. 27, Phytochemical Potential of Tropic Plants 89 Downum KR Romeo JT Stafford H. tat degradation and over-exploitation as a medicinal plant. *Warburgia* advances in the utilization of *W. salutaris* in southern Africa has been made over . Phytochemistry:

Phytochemical Potential of Tropical Plants. New, well known medicinal plants practiced traditionally for use of herbal medicine. It is generally phytochemical studies in *Desmodium gangeticum* which serves as a potential source for tropical region with alternate leaves and compressed fruits. About 38 .. Recent advances in the phytochemistry of some Tropical Crops Genetic Resources Institute, Chinese Academy of Tropical The whole plant and its crude extracts, as well as its isolated authentication; phytochemistry; biological activities. 1. .. With the advances in phytochemical studies of *B. balsamifera*, flavonoids .. It could potentially be utilized to.

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