

# Overview on Dendrocalamus Strictus

Rupesh R. Kurhade<sup>1</sup>, Shailesh K. Zaware<sup>2</sup>, Pratik B. Mandlik<sup>3</sup>, Sachin V Datkhile<sup>4</sup>,  
Shubham C. Gadge<sup>5</sup>

Samarth Institute of Pharmacy, Belhe, Maharashtra, Pune, India<sup>1,2,3</sup>

Department of Pharmaceutics, Samarth Institute of Pharmacy, Belhe, Pune, Maharashtra, India<sup>4</sup>

Department of Pharmacology, Samarth Institute of Pharmacy, Belhe, Pune, Maharashtra, India<sup>5</sup>

rupeshkurhade2000@gmail.com

**Abstract:** Five age gradations of 7 Bamboo species viz., *Bambusa bambos*, *Dendrocalamus strictus*, *Bambusa vulgaris* var. *vulgaris*, *Bambusa vulgaris* var. *striata*, *Bambusa balcooa*, *Bambusa tulda* and *Bambusa polymorpha* have been subjected to bodily and chemical evaluation for you to advise appropriate species at affordable rotation age for pulp and paper production. All the 5 age gradations exhibited tremendous variations for bodily and chemical residences in Bamboo genetic assets. Considering bodily residences viz., bulk and primary density, all of the age gradation have been slight to excessive in variety which indicated their suitability as pulpwood. In proximate evaluation, characters viz., Ash content material, Hot water solubility, 1% NaOH Solubility, Alcohol benzene extractives, Acid insoluble lignin, Pentosans and Hollocellulose have been analysed. The extraordinary age gradations of numerous bamboo genetic assets fluctuate extensively for holocellulose, which constitutes the cellulose and hemi-cellulose (vital elements for paper production). Among the 5 age gradations, the prevalence of 5-year-antique *Bambusa balcooa* became obtrusive because of most holocellulose content material, low ash content material and slight the lignin content material. The consequences confirmed that the high-quality inhibition of the bacterial boom became proven with the aid of using ethanolic extract at each the concentrations 50 & a hundred ms The Phytochemical analyses of the plant life have been carried out. The microbial interest of the *Dendrocalamus strictus* became because of the presence of numerous secondary metabolites. Hence, those plant life may be used to find out bioactive herbal merchandise that could function leads withinside the improvement of recent prescription drugs studies activities..

**Keywords:** Dendrocalamus richs, Phytochemical screening, Antibacterial and Antifungal

## REFERENCES

- [1]. Phytochemicals screening and antimicrobial of denderoclamus strictus leaves extract S. N. Wangawar, G. R. Shendarkar\*, D. P. Shelke, A. K. Daswad, J. G. Pohare and A. B. poge published on 08 March 2017
- [2]. Research Article published on Dendrocalamus strictus ((Roxb.) Nees): A Suitable Host for the Maintenance and Propagation of AM Fungi under Temperate Conditions
- [3]. Shipra Singh, I Ajay Kumar, 1, 2 Anita Pandey, I and LokMan S. Palni 1 published on 16 February 2012.
- [4]. High-performance Thin Layer Chromatography Method Development and Validation for Simultaneous Determination of Phenolic Acids in Selected Indian Bamboo Species Jayanta Kumar Maji, Mansi Patel, Snehal Patel, Shital Butani, Priti Mehta published on Jun, 2019
- [5]. Dendrocalamus stocksii (Munro.): A Potential Multipurpose Bamboo Species for Peninsular India sham vishwanath geeta joshi published on January 2013.
- [6]. Banco Nacional de Germoplasma de Bolivia M. Kumar et al. published on August 2021
- [7]. Antifungal Activity of Some Fodder Plants Leaf Extract, R. N. Patil, S.P. Rothe 2 November 2016
- [8]. Evaluation of *Caesalpinia pulcherrima* Linn. for anti-inflammatory and antiulcer activities Vivek Sharma, Rajani G. P., 31-12-2010
- [9]. Ethnoveterinary uses of medicinal plants among traditional herbal healers in Alaknanda catchment of Uttarakhand, India P. C. Phondani, R. K. Maikhuri\* and C. P. Kala
- [10]. 11. In vitro antioxidant and H<sup>+</sup>, K<sup>+</sup>-ATPase inhibition activities of *Acalypha wilkesiana* foliage extract Rajesh Kashi Prakash Gupta, Pradeepa, Manjunatha Hanumanthappa 28-03-13

- [11]. In vitro Antioxidative Profiling of Different Fractions of Dendrocalamus strictus (Roxb.) Nees leaf Extract  
Arvind Kumar GOYA, April 2011.
- [12]. A Concise Review of Dendrocalamus asper and Relate Bamboos: Germplasm Conservation, Propagation and  
Molecular Biology ,Anis Adilah Mustafa, Mohammad Rahmat Derise, 14 September 2021