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Standardisation and Pharmacological Activity of Leaves Extract of *Bambusa Arundinacea*

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ABSTRACT

Background and Aims: The hydro alcoholic extract of *Bambusa arundinacea* possess may be useful as an anti-cancer agent and thus help in the treatment of the many diseases mediated by reactive oxygen species. *B. arundinacea* contains flavonoids, terpenes, alkaloids, polyphenols etc. It has received considerable attention in recent years due to their diverse pharmacological properties including anti-oxidant, cytotoxic and cancer chemo-preventive effects. The presence of digestible crude proteins like lysine, methionine and Betaine has been confirmed in the aerial parts of the plant. Different types of phenolic acids viz., Chlorogenic acid, Ferulic acid, Coumeric acid, Protocatechuic acid, Vanillic acid and Coffeic acid are also present. The Phenolic compounds are considered to be the most important antioxidants of plant materials. They act as primary antioxidants or free radical terminators. Antioxidant activity of phenolic compound is based on their ability to loose hydrogen atoms to free radicals.

Methods: Physicochemical analysis like Loss on drying, Alcohol soluble extractive, Methanol soluble extractive, Total ash, Acid insoluble ash, Water soluble ash, Solubility test and different types of Qualitative phytochemical analysis were performed.

Results: The phyto-pharmacological evaluations shows highlighted the potential of the *B. arundinacea* extract. It has been the subject of excellent research aiming in elucidating the underlying mechanisms for its chemopreventive effects and in other forms of human disease.

Conclusion: The *B. arundinacea* showed the presence of different types of Phyto constituents phenolic acids viz., Chlorogenic acid, Ferulic acid, Coumeric acid, Protocatechuic acid, Vanillic acid and Coffeic acid. The plant used to stimulate blood circulation, in the treatment of rheumatism, venereal disease and cancer, anxiety, fever, sleeping problems, and should be studied extensively.



Aims & Scope

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