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RESEARCH ARTICLE

Pharmacognostical screening of antibacterial compounds from leaves of *Alstonia scholaris*

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ABSTRACT

Today, when every day a new pathogenic strain of micro-organism is evolving, to combat any and every fatal disease, we need to have a whole new set of drugs, for which that very micro-organism is yet not resistant. India is blessed with numerous medicinal plants, whose secondary metabolites are truly effective in many diseases. *Alstonia scholaris* has long been used in treatment of various disorders in Ayurvedic system of medicine. Standard phytochemical assay on *Alstonia scholaris* leaves extracts have showed that alkaloids, saponins, phenolics were present more in the middle of solvent extracts series. Further we have worked on gram positive and gram negative bacteria both to see our extract's biological activity. There methanolic extract of leaves showed broad spectrum antibacterial activity against tested organisms. Maximum activity was exhibited against *Klebsiella pneumoniae*, *Escherichia coli*, followed by *Staphylococcus aureus*. These results show the possible way out to fight many deadly diseases.

Key words : Medicinal plant, *Alstonia*, Phytochemistry, Antimicrobial, Zone of Inhibition

How to cite this paper : Biswas, Anindita (2016). Pharmacognostical screening of antibacterial compounds from leaves of *Alstonia scholaris*. *Ann. Pharm. & Pharm. Sci.*, 7 (1) : 20-24.

Article chronicle : Received : 21.01.2016; Revised : 10.03.2016; Accepted : 22.03.2016

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