

Phytochemical analysis of Methanolic Extracts of different Parts of *Nyctanthes arbor-tristis* and Antibacterial Activity of Flower Extract

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Abstract—Phytochemical screening of methanolic extract of leaves, flowers, seeds, stem and bark of *Nyctanthes arbor-tristis* revealed the presence of alkaloids, flavonoids, tannins, phytosterol and phenolics. The antibacterial activity of methanolic extract and various fractions of flowers of *N. arbor-tristis* were tested against plant pathogenic bacteria viz., *Xanthomonas axonopodis* pv. *citri*, *Pseudovorax* sp. and *Dickeya zaeae*. Flowers extract/fractions of *N. arbor-tristis* were found most active against *X. axonopodis* pv. *citri*, moderately active against *D. zaeae* and least active against *Pseudovorax* sp. Hexane fraction was found highly active against *X. axonopodis* pv. *citri* and methanol extract was found highly active against *Pseudovorax* sp. and *D. zaeae*.

Keywords: Phytochemical screening, flowers, antibacterial activity, *Xanthomonas axonopodis* pv. *citri*, *Pseudovorax* sp. and *Dickeya zaeae*.