



STUDY OF ANTIMICROBIAL ACTIVITY, PHYTOCHEMICAL SCREENING & TLC OF *Citrus limon*, *Syzygium cumini*, *Vitex negundo* & *Tinospora cordifolia* AND THEIR PRODUCTS

D.P. VERMA^{*1}, S.C. PATEL¹, K.B. SHAH¹ & B.T. SHAH²

¹Dolat-usha institute of applied sciences and dhiru-sarla institute of Management and commerce, valsad, Gujarat 396001, India.

²B.K.M. Science college, valsad, Gujarat 396001, India.

ABSTRACT

The antimicrobial activity of various plants like *Citrus limon* (Lemon), *Syzygium cumini* (Jamun), *Vitex negundo* (Nagod) & *Tinospora cordifolia* (Galo) were studied and were tested on test organisms with the help of agar well diffusion method. Leaves of *Vitex negundo* & *Tinospora cordifolia*, juice of *Citrus limon* and fruit of *Syzygium cumini* has been taken for the study purpose. Almost all the plants showed zone of inhibition against the tested organisms like *Pseudomonas aeruginosa*, *Staphylococcus aureus*, *Bacillus subtilis*, *Escherichia coli* & *Proteus vulgaris* in high or less effectively but *Vitex negundo* (Nagod), *Citrus limon* (Lemon) & *Syzygium cumini* (Jamun) shows better results among all the plants extracts. Phytochemical screening as well as TLC were also studied of all the plant extracts. Hence, the leaf extracts of all above plants can also be used for further investigation for determination of therapeutic potential.

KEYWORDS: Antimicrobial activity, Agar well diffusion, , Phytochemical screening, TLC, Plant extracts



D.P.VERMA

Dolat-usha institute of applied sciences and dhiru-sarla institute of Management and commerce, valsad, Gujarat 396001, India.

*Corresponding Author

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