Phytochemical investigation and antimicrobial screening of extracts of *Litchi chinensis* leaves from Dehradun region, India

Rishi Kumar Shukla*, Deepak Painuly, Abha Shukla and Anirudh Porval

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**Abstract**

The aim of the present study is to establish a correlation between litchi leaves extracts and their activity against human pathogenic bacteria. For this fresh litchi leaves were collected and dried in shade, powdered and extracted successively with solvents of different polarity. Phytochemical investigation was performed using conventional natural products identification tests and antimicrobial screening was done for two Gram negative and three Gram positive bacterial strains. Antimicrobial test were performed by disc diffusion method. All the tests were performed in a triplicate. Presence of majority of phytoconstituents in acetone extract may be responsible for its prominent activity against all the pathogens.

**Keywords:** *Litchi chinensis, successive extraction, phytochemical investigation, and antimicrobial screening*