EVALUATION OF ANTIMICROBIAL ACTIVITY OF THE AQUEOUS EXTRACT OF LEMON GRASS AGAINST SELECTED PATHOGENIC BACTERIA

Atal Bihari Bajpai1*, Nitin Kumar Verma2, Vibhu Sharma2 and Javed Akhtar2

1Department of Botany, D.B.S. (P.G.) College, Dehradun
2Department of Biotechnology and Bioinformatics, Uttaranchal College of Science and Technology, Dehradun
Email: dratalbajpai40@gmail.com

Received-08.08.2017, Revised-03.02.2018

Abstract: In the present study, an antimicrobial activity of the aqueous extract of lemongrass species was assessed using both well diffusion and micro-dilution method in multi-well micro-titer plates. Lemongrass extract investigated for its antibacterial activity against four selected pathogenic bacteria: Staphylococcus aureus, Escherichia coli, Salmonella choleraesuis and Proteus vulgaris. Lemongrass extract at different concentrations (1:1, 1:5, 1:10, and 1:20) was active against all tested bacteria and the highest inhibitory effect was observed against S. aureus using the well diffusion method. Antibacterial activity of Aqueous extracts of selected commonly used lemongrass were screened against multi drug resistant bacteria, which concludes that their extracts can be used against multi drug resistance bacteria capable of causing both nosocomial and community acquired infections.

Keywords: Antimicrobial activity, Extract, Bacteria, Lemon grass

REFERENCES


*Corresponding Author