Antimicrobial activity of microalgal strains against pathogenic bacteria and fungal strains

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Causative agents of many ailments of plants, animal and human are microbes particularly bacteria and fungus which are generally treated using antibiotics, but the frequent occurrence of antibiotic resistance requires the development of new antibiotic agents. Unexplored bioactive natural candidates should be a chance for the production of targeted drugs with antibacterial and antifungal activity. In this paper, polarity based extracts of four di erent strains of Chlorekte speen used against 6 bacterial strains namely Pseudomonas aeruginosa (P. aeruginosa), Staphylococcus aureus (S. aureus), Esch coli (E.coli), Klebsiella pneumonia (K. pneumonia), Acinetobacter baumannii (A. baumannii) and Bacillus thuringiensis (B.thuringiensis) and 6 fungal strains name previous (P. italicum), Cladophialophora bantiana (C. bantiana), Rhizopus, Aspergillus falvus (A. falvus), Aspergillus niger (A. niger) and Aspergillus terrus (A. terrus) by using levo oxacin standard antibiotic and pure solvent for comparison. Agar well di usion assay has been used for antibacterial assay while Rapi Susceptibility Assay (RSA) has been done to measure the antifungal activity of all algal extracts. Later on Minimum Inhibitory Concentration (MIC) has been calculated for active extracts while Minimum Bactericidal and Fungicidal Concentrations (MBC and MFC) has been calculated for inactive extracts against fungal and bacterial pathogens. Results have been analyz statistically and these results suggest that the Chlorellasymptotential to develop antimicrobial drugs.

Biography

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