

World is now looking for an alternative and ecologically benign fuel due to the depletion of fossil fuels and the global warming brought on by the release of greenhouse gases from the burning of fossil fuels. One of the many solutions being thought about is biofuels due to its characteristics, bioethanol is seen to be the most promising biofuel to replace gasoline. Some fungal species are capable of producing Bioethanol as a by-product during carbohydrate fermentation. This project covers the quantification of Bioethanol production by the fungal species *Phlebiaradiata*.

PREPARTION AND CHARACTERATIZATION OF ANTIMICROBIAL WOUND HEALING NANO FIBER SHEET USING CHITOSAN EXTRACT OF MARINE WASTE

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Chitin is the second most abundant polysaccharide and produced annually as much as cellulose. Crab shell waste is ideal raw material for chitin production, The extracted chitin can be used to produce chitin derived products, such as chitosan also for Antimicrobial and nanofiber sheet production. The present work is aimed at extraction of chitin from crab shells. The methodology include acid hydrolysis, demineralization followed by deproteinization step. Chitosan produced by the deacetylation of chitin is a cationic polymer with antimicrobial properties, we demonstrate the improvement of chitosan properties by nano fibrillation. Nanofiber sheets were prepared from nano fibrillated chitosan under neutral conditions. Nanofibers of a chitosan-hydroxybenzotriazole (CS-HOBt)/polyvinyl alcohol (PVA) blend were successfully prepared using electrospinning techniques, nanofibers were fabricated without the use of standard organic solvents or organic acids. Recently, electrospinning of nanofibers based on chitosan has been widely researched and numerous nanofibers containing chitosan have been prepared by decreasing the number of the free amino groups of chitosan as the nanofibers have enormous possibilities for better utilization in various areas. The results of this study indicate significant acceleration in wound healing treated by using the Chitosan Nanofiber sheet.

Keywords: Chitin; Chitosan; Nanofibers;Electrospinning.

INVITRO BIOCONTROL AND PLANT GROWTH PROMOTING ACTIVITY BY *PSEUDOMONAS SP.*

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Plant growth promoting rhizobacteria (PGPR) are a group of bacteria. It can be found in the roots and enhance the growth of pant directly or indirectly. There is large number of
