Manufacturing Nanostructured and Microstructured Chitosan Prepared By Milling Shrimp Shelll

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Abstract: Nano-products are of great interest in the field of pharmaceutical, corrosion, medecine and engineering. This research aimed to produce nano-chitosan. Nanocrystallite. Shrimp shells have been prepared by using a high-energy planetary ball with an optimal rotational speed. The raw material was subjected to standard chemical processing forchitin extraction, followed by deacetylation to obtain nanocrystallitechitosan, which is characterized by Scanning Electron Microscope SEM Fourier, Transform Infrared Spectrometry FT-IR and X-ray diffraction (XRD)

Keywords: Shrimp shell, Planetary milling, chitosan, SEM, FT-IR, XRD