

## Characterization and Analyzation of Chitosan from Paphia Undulate Shell

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This work aims at characterizing the physical and chemical properties of chitosan which extract from the Paphia Undulate Shell. The physical and chemical properties have been also discussed in detail which Fourier Transform Infrared Spectroscopy (FTIR), Energy Dispersive X-Ray Fluorescence (EDXRF) and X-Ray Diffraction (XRD), respectively. The result of the XRD pattern indicated the sample has amorphous-crystalline structure and FTIR results confirmed the formation of intermolecular hydrogen bonding between the amino and hydroxyl groups of the sample which corresponding with the result of. the EDXRF, which report the highest concentration of chemical composition is CHO.

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