

**ISOLASI DAN KARAKTERISASI KITOSAN DARI KULIT UDANG WINDU (*Peneaus monodon*) YANG DIBUDIDAYAKAN DI GORONTALO**

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**ABSTRACT:** *This research is a laboratory experiment, which intends to isolate and characterize chitosan of windu shrimp's skin, which is cultivated in Gorontalo by using Fourier Transform Infra Red Spectrophotometer. The result of water analysis and degree, ash degree, and the degree of deasetilation, which were found were in accordance to standard parameter of chitosan which is required, that are 8%, 1,5% and 80,01%. The test of chitosan solubility characteristic was apparently in accordance with standard parameter of chitosan quality that is not soluble in water, concentrated  $\text{NH}_3$ ,  $\text{Na}_2\text{SO}_4$  2%, slightly soluble in concentrated  $\text{HCl}$ , concentrated  $\text{HNO}_3$  and soluble in  $\text{CH}_3\text{COOH}$  1%.*

**Key word:** *Isolation, Characterization, Chitosan, Windu Shrimp (P. Monodon)*