

ABSTRACT

PRODUCTION CHITOSAN FROM RAW MATERIALS SHRIMP SHELLS USES THE METHOD OF CHEMICAL AND OF ENZYMATIC WITH ENZIM CHITIN DEACETILASE

By

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Has been conducted research on the production of chitosan shrimp shells with two methods. Test a method of chemical deproteinasi, covering demineralisasi, deasetilasi and methods of enzymatic with deasetilasi chemical partly followed by the addition of an enzyme chitin deasetilase. Characterization chitosan produced covering the water level, levels of ashes levels of nitrogen and degrees deasetilasi. The result showed that kitosan resulting from a method of chemical having the water level, levels of ashes levels of nitrogen and degrees deasetilasi successive also 7.39 %; 2,10 %; 7,59 % and 71 %. While in deasetilasi of enzymatic, the result analysis deasetilasi chemical partly use of the spectrophotometer fourier transform infrared (FTIR) produces chitosan deasetilasi 46,68 %, with degrees followed by the addition of an enzyme CDA (chitin deacetilase) produces chitosan with degrees deasetilasi 75,91 %.

Keywords: degrees deasetilasi, the chitin, chitosan, the chitin deasetilase