

PENGARUH KONSENTRASI BROMELIN PADA PROSES DEPROTEINASI TERHADAP KUALITAS CHITIN-CHITOSAN CANGKANG UDANG WINDU (*Penaeus monodon*) SERTA APLIKASINYA SEBAGAI BAHAN PENJERNIH SARI BUAH JAMBU BIJI



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Dibuat: 2009-09-01 , dengan 3 file(s).

Keywords: bromelin, chitosan, penjernih

ABSTRAC

Enzyme represent catalyst able to quicken a reaction without the happening of permanent change in itself enzyme structure. Enzyme of Bromelin is an enzyme of protease able to extracted of pineapple fruit bar or fruit flesh (*Ananas comosus*) which can of protein hydrolysis, or protease of peptida some natural materials for example chitin and chitosan. Intention of this research is to know influence of enzyme concentration of bromelin from pineapple fruit at deproteinasi process to quality chitin-chitosan of windu prawn husk (*Penaeus Monodon*) as cleaner materials of guava extract.

This research is conducted on March until July 2009th at Technological of Agricultural Produce Laboratorium. Faculty of agriculture. Muhammadiyah University of Malang, In this research, include in three phase and repeated of 3 times by using factorial RAL method with one factors from four levels. Phase I is making of bromelin extraction from penneapple. Phase II is making of chitin-chitosan ekstraktion form windu prawn husk with natural process of deproteinasi or omission of protein with concentration of NaOH (control treatment), concentration of bromelin the used is 2%, 4%, and 6%. While for the Phase III is application of chitosan with best treatment upon as clenaer of guava extract.

The research result shows that each of indicate that treatment bromelin concentration have on very real an effect to dwindle wight of chitin, dwindle wight of chitosan, rate irrigate chitin, rate irrigate chitosan, dusty rate of chitin, protein rate of chitin, and protein rate of chitosan. Deproteinasi process show result of chitin with protein value of lowest there are at concentration of bromelin 6% (5,72%) and chitosan with concentration of bromelin 6% (0,55%). Usage of chitosan as clenaer of guava extract indicate that chitosan control and also chitosan with bromelin 6% can be used as by materials of cleaner, marked with height mount brightness at guava extract and show different result of reality with extract which do not addition experience of chitosan.