#### Produksi Enzim Selulase oleh Aspergillus niger pada Ampas Sagu

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#### ABSTRACT

Production of cellulase by Aspergillus niger was carried out by growing the cultureson sago waste. Sago waste contains cellulose that has not been used optimally. Cellulose is a polysaccharide consisting of glucose monomers linked by -1,4-glycosides bonds. Glycoside bonds in cellulose can be enzymentically hydrolyzed into glucose with cellulase enzymes. Solid fermentation used to produce cellulase on sago waste as substrate was influenced by pH (3 to 6), moisture content (40% to 85%), and fermentation time (4 to 10 days). Products of the cellulase enzyme activity was measured by phenolsulfuric acid method. The results showed that the highest cellulase enzyme activity was 0.172 UmL obtained at 85% moisture content, pH 5, and 8 days of fermentation time.

Keywords: Aspergillus niper, cellulase, sago waste

#### ABSTRAK

Produksi enrim selulase oleh Aspergillas niger pada ampas sagu telah dilakukan. Ampas sagu adalah salah satu bahan yang mengandung selulasa di mana ampas sagu belum dimanfastkan secara optimal. Selulosa merupakan polisakarida yang terdiri atas monomer glukosa yang dibubungkan oleh ikatan. - 1.4-glikosida. Ikatan glikosida pada selulosa dapat dibidroli sis menjadi glukosa secara enzimatik dengan enzim selulase. Fermentasi padat digunakan untuk menghasilkan enzim selulase pada sebatrat ampas sagu yang dipengarahi oleh faktor pH (3 sampai 6), kadar air (40% sampai 85%) dan waktu fermentasi (4 sampai 10 hari). Produk aktivitas enzim selulase diukur dengan metode fenol-asam sulfat. Hasil penelitian menunjukkan bahwa aktivitas enzim sekulase tertinggi adalah 0, 172 U/ml. yang diperoleh pada kadar air 85%, pH 5, dan waktu fermentasi 8 hari.

Kata Kunck Ampus sagu, Aspergittus niger, Schulase

#### PENDAHULUAN

Enzim selulase merupakan enzim yang dapat menghidrolisis ikatan (1-4) pada selulosa. Adanya selulosa dalam suatu substrut dapat menginduksi terbentuknya enzim selulase oleh mikroorganisme selulolitik. Mikroorganisme selulolitik yang dapat digunakan untuk menghasilkan enzim selulase misalnya kapang Aspergullas niger (Ul-haq et al. 2005). Substrat yang digunakan untuk memprodukai enzim selulase udalah substrat berbahan lignoselulosa. Substrat lignoselulosa yang telah diselisi dengan kapang A. niger yaitu jerami padi (Sa'adah erat. 2008), serbuk gergaji kayu (Guruchandran & Sasikumar 2010; Acharya erat. 2008), ampas tebu (Guruchandran & Sasikumar 2010), tandan pisang (Retnoningtyas erat. 2006), jerami gandum (Jecu 2000), kulit gandum (Jecu 2000), dan ampas singkong (Pothimi etat. 2006).

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