

ENZIM AMILASE PEMECAH PATI MENTAH DARI MIKROBA: KAJIAN PUSTAKA

Raw Starch Degrading Amylase Enzyme from Microbes: A Review

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ABSTRAK

Enzim amilase merupakan enzim yang mampu mengkatalis proses hidrolisa pati untuk menghasilkan molekul lebih sederhana seperti glukosa, maltosa, dan dekstrin. Proses hidrolisa pati tersebut dilakukan melalui tiga tahapan yaitu gelatinisasi, likuifikasi, dan sakarifikasi. Ketiga tahapan tersebut memerlukan energi yang relatif tinggi sehingga meningkatkan biaya produksi pada produk berbasis pati. Saat ini, sebagai salah satu upaya dalam penghematan energi, berbagai penelitian telah difokuskan mengenai enzim amilase pemecah pati mentah (APPM) yaitu enzim yang dapat bekerja langsung pada granula pati mentah tanpa melalui proses gelatinisasi. APPM dapat diproduksi dari berbagai sumber seperti tanaman, hewan, atau mikroba. Paper ini akan mengulas tentang perkembangan dari eksplorasi enzim APPM tersebut khususnya dari sumber mikroba. Ulasan diarahkan pada enzim APPM dari mikroba sebab amilase dari mikroba lebih diminati untuk nantinya diproduksi dalam skala industri.

Kata kunci: Amilase Pemecah Pati Mentah, Mikroba, Produksi Enzim

ABSTRACT

Amylase is a enzyme that catalyze the hydrolysis of glycosidic linkages in starch to produce low molecular weight products such as glucose, maltose, and dextrin. Conventionally, hydrolysis of starch requires three-step processes namely gelatinization, liquefaction, and saccharification. This process is energy-intensive thus increasing the production cost of starch-based products. With the view of reducing energy consumption, there is considerable research on raw starch degrading amylase (RSDA) currently. RSDA refers to amylase that can act directly on raw starch granules without gelatinization of starch. RSDA are ubiquitous and produced by plants, animals, and microbes. This paper reviews the recent development in the exploration of RSDA produced from microbes. Review is focused on microbial RSDA because it is the most preferred one for large production.

Keywords: Raw Starch Degrading Amylase, Microbes, Enzyme Production

PENDAHULUAN

Proses hidrolisa merupakan proses pemecahan rantai molekul polimer menjadi molekul penyusunnya yang lebih sederhana. Saat ini proses hidrolisa polimer pati menjadi molekul yang lebih sederhana telah menjadi salah satu tahapan penting dalam dunia industri [1]. Hidrolisa pati tersebut dilakukan dengan dua cara yaitu dengan menggunakan asam atau enzim pemecah pati misalnya dari golongan amilase. Penggunaan enzim amilase lebih diminati sebab ramah lingkungan, pemecahan yang terjadi lebih spesifik dan tidak menimbulkan rasa yang menyimpang pada produk akhir [2]. Proses hidrolisis pati menggunakan enzim amilase dapat mencapai derajat hidrolis pati hingga 42%-97% tergantung jenis substrat dan waktu inkubasi [3].

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