

PENAPISAN BAKTERI DARI PERAIRAN LAUT PARIAMAN PENGHASIL ENZIM EKSTRASELULER HIDROLASE

Abstrak

Penelitian mengenai Penapisan Bakteri dari Perairan Laut Pariaman Penghasil Enzim Ekstraseluler Hidrolase telah dilakukan pada bulan Agustus - November 2015 di Laboratorium Riset Mikrobiologi, Jurusan Biologi, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Andalas, Padang. Penelitian ini bertujuan untuk mengetahui potensi isolat bakteri laut dalam menghasilkan enzim ekstraseluler hidrolase (amilase, lipase, protease, selulase). Penelitian ini menggunakan metoda eksperimen dan data dianalisa secara deskriptif. Hasil penelitian menunjukkan bahwa 6 isolat yang bersifat amilolitik, 6 isolat bersifat lipolitik, 4 isolat bersifat proteolitik dan tidak ditemukan isolat yang bersifat selulolitik. Nilai indeks amilolitik, lipolitik dan proteolitik tertinggi ditemukan masing-masing pada isolat I₉, K₂; I₆, A₂; I₁₀, K₁ dengan nilai indeks masing-masing 1,30; 2,59; 0,64.

Kata Kunci : *enzim ekstraseluler hidrolase, amilase, lipase, protease, selulase dan laut kota pariaman.*



SCREENING BACTERIA OF PARIAMAN SEA WATERS PRODUCING EXTRACELLULAR HYDROLASE ENZYME

Abstract

The research on Screening Bacteria of Pariaman Sea Waters Producing Extracellular hydrolase enzyme had been done in August until November 2015 in Microbiology Research Laboratory, Department of Biology, Faculty of Mathematics and Natural Sciences, University of Andalas, Padang. This study aims to determine the potential of bacterial isolates ocean to produce extracellular enzymes hydrolases (amilase, lipase, protease, cellulose). This study uses method of experiment and data were analyzed descriptively. The result showed that 6 isolates that are amyolytic, 6 isolates are lypolytic, 4 isolates is proteolytic and can not be found isolates that are cellulolytic. Index value amyolytic, lipolytic and proteolytic highest found in isolates each I₉, K₂; I₆, A₂; I₁₀, K₁ an index value of each 1.30; 2.59; 0.64.

Keyword : *extracellular enzymes hydrolase, amylase, lypase, protease, cellulase and marine periaman*

