Deteksi Gen Alkana Monooksigenase (alkB) pada bakteri laut di perairan Pulau Pari, Kepulauan Seribu, Jakarta = Detection of Alkane Monooxygenase (alkB) from marine bacteria in Pari Island, Kepulauan Seribu, Jakarta / Andi Aisyiah Alwie

Andi Aisyiah Alwie, author

Abstrak

[Telah dilakukan penelitian deteksi gen alkana monooksigenase (alkB) pada bakteri laut di Perairan Pulau Pari Kepulauan Seribu, Jakarta. Penelitian bertujuan untuk memperoleh isolat bakteri yang membawa gen alkB dari perairan Pulau Pari Kepulauan Seribu, Jakarta. Penelitian dilakukan selama 5 bulan sejak bulan Februari 2015 sampai bulan Mei 2015 dengan metode Polymerase Chain Reaction (PCR) pada 81 isolat yang telah diremajakan. Isolat bakteri diremajakan menggunakan medium marine agar (MA) dengan metode kuadran streak. Hasil deteksi mendapatkan satu isolat yang membawa gen alkB yaitu isolat nomor 71. Hasil amplifikasi isolat 71 menghasilkan pita DNA dengan ukuran 550 pb. Pita DNA dengan panjang 550 pb merupakan gen alkB. Hasil dari sekuensing menunjukkan bahwa Isolat 71 adalah dari spesies Bordetella sp. ;Detection gene alkane monooxygenases (alkB) from marine bacteria in Pari Island Kepulauan Seribu, Jakartahas been researched. The research aims to obtain bacterial isolates that carry the gene alkBin Pari Island Kepulauan Seribu, Jakarta. The study was conducted during the five months from February 2015 to May 2015 with a method of Polymerase Chain Reaction (PCR) from 81 isolates that have been rejuvenated. Bacterial isolates rejuvenated using marine medium agar (MA) with the quadrant streak method. Obtain detection results of the isolates that carry the gene which isolates number 71. alkB amplification results of 71 isolates produce ribbon DNA with size 550 bp. DNA tape with a length of 550 bp is alkB gene.The results of sequencing showed that the isolate 71 is Bordetella sp.
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