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Carboxylesterase Gene from Marinobacter Hydrocarbonoclasticus PSTZ

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Purification, Amplification & Sequencing - Extremozyme From Extremophile | Halophilic enzymes especially esterase & lipases have a wide and varied industrial & biotechnological application in the present era. The ability of the halophilic bacteria to grow and produce enzymes over a very wide range of salinities make them very attractive for research and for the isolation of novel enzymes with unusual properties. Screening of novel extreme halophilic microorganism is very important for the production of novel enzyme. The bacterium *Marinobacter Hydrocarbonoclasticus* PSTZ used for the present study was previously isolated in our laboratory. Further work was carried out to purify, amplify & sequence carboxylesterase gene from strain PSTZ. The use of lipases & esterases for a variety of biotechnological applications is rapidly & steadily increasing. Many novel lipase genes are still to be identified & enzymes with new and exciting properties will be discovered. In parallel, the combination of optimized lipases with improved reaction conditions will lead to novel synthetic routes, allowing the production of high-value chemicals & pharmaceuticals. The new era of biocatalysts that has just started will undoubtedly see lipolytes as the biocatalysts of the future. | Format: Paperback |...



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