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chem@tubitak.gov.tr

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Comparison of Different Production Processes for Bioethanol

Belkıs ÇAYLAK
Ege University, Ege Technical Highschool,
Bornova, İzmir - TURKEY
Fazilet VARDAR SUKAN
Ege University, Faculty of Chemistry Engineering,
Bornova, İzmir - TURKEY

Abstract: In this study, ethanol was produced with the microorganism {\em Saccharomyces cerevisiae} by using sucrose as a substrate. Batch processes were tested by using the same substrate, microorganism and medium composition. {\em Saccharomyces cerevisiae}, used in the free form in the first group of experiments, was immobilized by different methods. In the second group of experiments agar, sponge and a natural material called luffa cylindrica fiber were used as support materials. The batch processes with free and immobilized microorganisms were compared with respect to efficiency and yield.

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