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有机介质中脂肪酶促动力学拆发外消旋1-三甲基硅乙醇

Lipase-catalyred Kinetic Resolution of Racenic 1-Trimethylolylethanol in Organic Solvent

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Abstract The manifored-civity exception of meemic 1-stimethylolylethanol with acid catalyzed by lapse in organic solvent was successfully performed. The influence of some factors on the reaction was investigated. Among the four lipase explored, Candida rugosa lipase (CRL) showed the highest activity and emantion-decivity. Octanic acid was the best acyl donor among the eleven acids studied and abstract the most satisfied meaning from the reaction. The optimum shaking rate and temperature were found to be 150 ratio in aid 20-(3 to 30-C, respectively). The emantion-efficiency of the remaining (S)-(1-stimethylolylethanol was 93% when substrace conversion was 53% upon incubation of the reaction mixture at 30-C, 150 ratio in 67 12b.

Key words Candida rugosa lipuse; enuntioselective esterification; kinetic resolution; racemic 1-trimethylsilylethanol_

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