BIOTECHNOLOGY & BIOENGINEERING

脂肪酶促乌桕脂组分甘油解及其反应机理研究

College of Life Science and Technology, Beijing University of Chemical Technology, Beijing 100029, China 收積日期 修岡日期 网络版发布日期 拨受日期

 关键词
 脂肪酶
 乌桕脂
 甘油
 反应机理
 植物脂

 分类号
 DOI:

Enzymatic Glycerolysis of Chinese Vegetable Tallow Fraction by Lipase and Study of the Mechanism

YII/Khunhuna, LIUTao, TANTianwel
College of Life Science and Technology, Beijing University of Chemical Technology, Beijing 100029, China

College of Life Screenee and recumology, net Jing University of Chemical Technology, net Jing University of Chemical Technology, net Jing University of Chemical Technology, net Jing University of Chinese and Event County of Chinese weighted hallow (CVT) fraction was investigated using a 1,3-specific lipuse from Rhizopus arthirus as catalysts. Based upon a binary gradient HPLC with an evaporative light-scattering detector (ELSD), the contents of free fasty acids (FFA), monoglycerides (MG), diglycerides (MG) and injectories (TO) with their positional isomers during the glycerolysis were determined. The effects of water content and the ratio of glyceroly to oil on the product distribution of glycerolysis users unded. Under the optimum reactant conditions: 250 units lipuse per gram oil at 37°C with 1: 2 molar ratio of oil to glycerol in a solvent-free system, after 24.0. Excession, the product occusived of 27°C to 2.56 MM, O.5.18 Day and 49% FFA (41b) ymass). Furthermore, the mechanism of glycerolysis was discussed in detail.

通讯作者: 尹春华 作者个人主页: 尹春华;刘涛;谭天伟

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