SELECTED PAPERS FROM.....

胰蛋白酶水解酪蛋白制备活性多肽的指数形式动力学新模型

何志敏,齐崴,何明霞

Chemical Engineering Research Center, Tianjin University, Tianjin 300072, China

收稿日期 修回日期 网络版发布日期 接受日期

摘要 The kinetics of casein tryptic hydrolysis to prepare active peptides was investigated. Taking intoaccount the reaction mechanism including single substrate hydrolysis, irreversible enzyme inactivation, and substrateinhibition, a set of exponential equations was established to characterize the enzymatic hydrolysis curves. Theverification was carried out by a series of experimental results and indicated that the average regressive error wasless than 5%. According to the proposed kinetic model, the kinetic constants and thermodynamic constants of thereaction system were also calculated.

关键词 active peptide casein hydrolysis kinetics trypsin

分类号

DOI:

A Novel Exponential Kinetic Model for Casein Tryptic Hydrolysis to Prepare Active Peptides

HE Zhimin, QI Wei, HE Mingxia

Chemical Engineering Research Center, Tianjin University, Tianjin 300072, China

Received Revised Online Accepted

Abstract The kinetics of casein tryptic hydrolysis to prepare active peptides was investigated. Taking intoaccount the reaction mechanism including single substrate hydrolysis, irreversible enzyme inactivation, and substrateinhibition, a set of exponential equations was established to characterize the enzymatic hydrolysis curves. Theverification was carried out by a series of experimental results and indicated that the average regressive error wasless than 5%. According to the proposed kinetic model, the kinetic constants and thermodynamic constants of thereaction system were also calculated.

Key words active peptide; casein; hydrolysis; kinetics; trypsin

通讯作者: 何志敏 <u>zhe@tju.edu.cn</u> 作者个人主页: 何志敏; 齐歲; 何明霞

扩	展	功	能

本文信息

Supporting info

PDF(1459KB)

▶ [HTML全文](OKB)

▶ 参考文献

服务与反馈

▶ 把本文推荐给朋友

▶ 加入我的书架

▶ 加入引用管理器

▶ 引用本文

Email Alert

▶<u>文章反馈</u>

▶<u>浏览反馈信息</u>

相关信息

▶ <u>本刊中 包含 "active peptide"的</u> 相关文章

▶本文作者相关文章

何志敏

・<u>齐嵗</u> ・何明霞