青霉素酰化酶在介孔分子筛**MCM-41**上的固定化研究

李晓芬,何静,段雪,马润宇,朱月香

北京化工大学应用化学系.北京(100029);北京化工大学化学工程系;北京大学 物理化学研究所.北京(100871)

收稿日期 修回日期 网络版发布日期 接受日期

摘要 通过改变酶固定化时的pH值、温度、时间以及酶用量,研究了固定化条件对MCM-41 载体上固定化青霉素酰化酶的酶活及其稳定性的影响,明确了酶活及其稳定性随固定化条件的变化规律,初步分析了青霉素酰化酶在介孔分子筛MCM-41上的固定化过程。

关键词 青霉素酰化酶 分子筛 固定化

分类号 Q55

The immobilization of penicillin G amidase on mesoporous molecular sieve MCM-41

Li Xiaofen, He Jing, Duan Xue, Ma Runyu, Zhu Yuexiang

Beijing Univ Chem Technol, Dept Appl Chem.Beijing(100029);Beijing Univ, Inst Phys Chem.Beijing(100871)

Abstract Mesoporous molecular sieve MCM-41 has been used as the support for the immobilization of penicillin G amidase (PGA). The effects of immobilization conditions such as pH, temperature, time and ratio of PGA to MCM-41 on the activity and stability of immobilized enzyme (IME) have been studied. It was found that the activity of IME decreased with the increase of pH, increased and then decreased with the increase of temperature and time, increased with the increase of temperature, increased with the increase of time and the ratio of PGA to MCM-41. Additionally, the process of PGA immobilized on MCM-41 has been studied.

Key words MOLECULAR SIEVE FIXATION

DOI:

本文信息

扩展功能

- ► Supporting info
- ▶ **PDF**(0KB)
- ▶[HTML全文](0KB)
- ▶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
- ▶复制索引
- ► Email Alert
- ▶文章反馈
- ▶浏览反馈信息

相关信息

- ▶ <u>本刊中 包含"青霉素酰化酶"的</u> 相关文章
- ▶本文作者相关文章
- 李晓芬
- 何静
- 段雪
- 马润宇
- 朱月香

通讯作者