

RESEARCH NOTES

壳聚糖/乙基纤维素微胶囊的制备及特性

史新元, 谭天伟

College of Chemical Engineering, Beijing University of Chemical Technology, Beijing 100029, China

收稿日期 修回日期 网络版发布日期 接受日期

摘要 In this work a system which consists of chitosan microcores entrapped in ethylcellulose is presented. Vitamin D2 was efficiently entrapped in chitosan microcores with spray-drying method and was microencapsulated by coating of ethylcellulose. The average size of chitosan microspheres was 6.06 μm . The morphology and release properties of microcapsules were tested. The results of release in vitro showed that the microcapsule could realize sustained release for 12 h in artificial intestinal juice.

关键词 [microcapsule](#) [chitosan](#) [Vitamin D2](#)

分类号

DOI:

Preparation and Characterization of Chitosan/Ethylcellulose Complex Microcapsule

SHI Xinyuan, TAN Tianwei

College of Chemical Engineering, Beijing University of Chemical Technology, Beijing 100029, China

Received Revised Online Accepted

Abstract In this work a system which consists of chitosan microcores entrapped in ethylcellulose is presented. Vitamin D2 was efficiently entrapped in chitosan microcores with spray-drying method and was microencapsulated by coating of ethylcellulose. The average size of chitosan microspheres was 6.06 μm . The morphology and release properties of microcapsules were tested. The results of release in vitro showed that the microcapsule could realize sustained release for 12 h in artificial intestinal juice.

Key words [microcapsule](#); [chitosan](#); [Vitamin D2](#)

通讯作者:

史新元 tantw@mailserv.buct.edu.cn

作者个人主页: 史新元; 谭天伟

扩展功能

本文信息

▶ [Supporting info](#)

▶ [PDF](#) (836KB)

▶ [\[HTML全文\]](#) (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](#)

▶ [引用本文](#)

▶ [Email Alert](#)

▶ [文章反馈](#)

▶ [浏览反馈信息](#)

相关信息

▶ [本刊中包含“microcapsule”的相关文章](#)

▶ 本文作者相关文章

· [史新元](#)

· [谭天伟](#)