

工业药剂学

尼群地平脂质体的制备及包封率的测定

李 喆,邓英杰,王秀敏

沈阳药科大学 药学院;辽宁 沈阳 110016

收稿日期 2005-4-4 修回日期 2005-6-4 网络版发布日期 2005-7-30 接受日期 2005-5-4

摘要

目的 制备尼群地平脂质体,测定脂质体的包封率。方法 采用单相溶液冻干法制备尼群地平脂质体,用超滤法分离脂质体和游离药物,紫外分光光度法测定其含药量和包封率,并考察了冻干产物的稳定性。结果 尼群地平脂质体的含药量为 $(0.60 \pm 0.02) \text{ g/L}$,包封率为 $(65.1 \pm 2.1) \%$,长期放置,包封率变化不大。结论 采用单相溶液冻干法制备尼群地平脂质体和紫外分光光度法测定脂质体包封率,方法可行。

关键词 [药剂学](#) [脂质体](#) [冻干](#) [尼群地平](#) [包封率](#)

分类号 [R94](#)

Preparation of nitrendipine liposomes and determination of encapsulation efficiency

LI Zhe, DENG Ying-jie, WANG Xiu-min

School of Pharmacy; Shenyang Pharmaceutical University; Shenyang 110016; China

Abstract

Objective To prepare nitrendipine liposomes, determine its encapsulation efficiency by Ultraviolet spectrophotometry. Methods The nitrendipine liposomes were prepared by freeze-drying of monophasic solution. The ultrafiltration method was used to separate the free nitrendipine from liposomes, ultraviolet spectrophotometry method was used to determine its drug content and encapsulation efficiency, and stability of liposomes was studied. Results The drug content of nitrendipine liposomes was $(496 \pm 10.4) \text{ mg/L}$. The encapsulation efficiency was $(50.25 \pm 0.62) \%$, and it did not change obviously after storage of 12 months. Conclusion It's feasible to prepare nitrendipine liposomes by freeze-drying of monophasic solution and determine its encapsulation efficiency by Ultraviolet spectrophotometry.

Key words [pharmaceutics](#) [liposomes](#) [freeze-drying](#) [nitrendipine](#) [encapsulation efficiency](#)

DOI :

通讯作者 邓英杰 dengyjlab@yahoo.com

作者个人主页 李 喆;邓英杰;王秀敏

扩展功能

本文信息

▶ [Supporting info](#)

▶ [PDF\(246KB\)](#)

▶ [\[HTML全文\]\(0KB\)](#)

▶ [参考文献\[PDF\]](#)

▶ [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

▶ [本刊中包含“药剂学”的相关文章](#)

▶ 本文作者相关文章

· [李 喆](#)

· [邓英杰](#)

· [王秀敏](#)