

药剂学进展

## 纳米结构脂质载体的研究进展

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摘要

目的 综述纳米结构脂质载体的最新研究进展。方法 通过查阅国内外有关纳米脂质载体的研究论文和综述等共15篇, 将纳米结构脂质载体制备方法、类型分类、相对于固体纳米脂质粒的优越性及应用情况进行了概括, 同时指出了发展前景和尚待解决的问题。结果 纳米结构脂质载体解决了固体纳米脂质粒存在的诸多不足, 提高了载药量, 减缓了突释效应, 增强了物理稳定性。结论 纳米结构脂质载体可供多途径给药, 是极有发展前景的新型给药系统。

关键词 [药剂学](#) [纳米结构脂质载体](#) [固体脂质纳米粒](#)

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## Research and development of nanostructured lipid carrier

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Abstract

Objective To review the latest research development of the nanostructured lipid carrier (NLC). Methods According to the recent relevant literature, the compare with solid lipid nanoparticles (SLN), the preparations for the NLC, types, and its application in the pharmaceutical field were summarized. Its development prospect and unsolved problem were pointed out. Results NLC solves potential disadvantages associated with SLN such as particle growth and aggregation, unpredictable gelation tendency, unexpected dynamics of polymorphic transitions, burst drug release and inherently low incorporation capacities and potential drug expulsion during storage due to the catrystalline structure of the solid lipid. Conclusions The SLN could be used by various administration, and they have broad prospects in the pharmaceutical field.

Key words [pharmaceutics](#) [nanostructured lipid carrier](#) [solid lipid nanoparticles](#)

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