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投稿时间: 2010-10-14 责任编辑: 马超 [点此下载全文](#)

引用本文: 陈彦,吴青肖,张振海,周蕾,刘璇,杜萌,贾晓斌.熊果酸醇质体的制备和体外透皮研究[J].中国中药杂志,2011,36(8):988.

DOI: 10.4268/cjmm20110808

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作者中文名	作者英文名	单位中文名	单位英文名	E-Mail
陈彦	CHEN Yan	江苏大学 药学院,江苏 镇江 212013 国家中医药管理局 中药释药系统重点研究室,江苏省中医药研究院 中药新型给药系统重点实验室,江苏 南京 210028	Department of Pharmaceutics, Jiangsu University, Zhenjiang 212013, China Key Laboratory of New Drug Delivery System of Chinese Meteria Medica, Jiangsu Provincial Academy of Chinese Medicine, Nanjing 210028, China	
吴青肖	WU Qingqiao	江苏大学 药学院,江苏 镇江 212013	Department of Pharmaceutics, Jiangsu University, Zhenjiang 212013, China	
张振海	ZHANG Zhenhai	国家中医药管理局 中药释药系统重点研究室,江苏省中医药研究院 中药新型给药系统重点实验室,江苏 南京 210028	Key Laboratory of New Drug Delivery System of Chinese Meteria Medica, Jiangsu Provincial Academy of Chinese Medicine, Nanjing 210028, China	
周蕾	ZHOU Lei	江苏大学 药学院,江苏 镇江 212013	Department of Pharmaceutics, Jiangsu University, Zhenjiang 212013, China	
刘璇	LIU Xuan	国家中医药管理局 中药释药系统重点研究室,江苏省中医药研究院 中药新型给药系统重点实验室,江苏 南京 210028	Key Laboratory of New Drug Delivery System of Chinese Meteria Medica, Jiangsu Provincial Academy of Chinese Medicine, Nanjing 210028, China	
杜萌	DU Meng	国家中医药管理局 中药释药系统重点研究室,江苏省中医药研究院 中药新型给药系统重点实验室,江苏 南京 210028	Key Laboratory of New Drug Delivery System of Chinese Meteria Medica, Jiangsu Provincial Academy of Chinese Medicine, Nanjing 210028, China	
贾晓斌	JIA Xiaobin	国家中医药管理局 中药释药系统重点研究室,江苏省中医药研究院 中药新型给药系统重点实验室,江苏 南京 210028	Key Laboratory of New Drug Delivery System of Chinese Meteria Medica, Jiangsu Provincial Academy of Chinese Medicine, Nanjing 210028, China	jxiaobin2005@hotmail.com

基金项目:江苏省中医药领军人才项目(LJ200913)

中文摘要:目的:制备熊果酸醇质体并考察醇质体作为熊果酸经皮给药载体的渗透特性。方法:采用乙醇注入法制备熊果酸醇质体,并对其形态及粒径进行分析;采用TP-3型透皮扩散实验仪进行体外透皮吸收试验,比较熊果酸10%异丙醇溶液、熊果酸醇质体、熊果酸脂质的经皮累积渗透量和渗透速率。结果:此方法制得的醇质体平均包封率为(95.83±0.86)%,平均粒径为(87.5±7.5) nm,Zeta电位为(-38.4±3.6) mV,醇质体12 h的累积透过量为146.49 μg·cm<sup>-2</sup>,12 h的渗透速率为12.17 μg·cm<sup>-2</sup>·h<sup>-1</sup>。结论:醇质体包封率高,稳定性好,可显著促进熊果酸的透皮吸收。

中文关键词:熊果酸 醇质体 体外透皮

### Preparation and transdermal diffusion of ursolic acid ethosomes

Abstract:Objective: To prepare ursolic acid ethosomes and investigate the penetration characteristics of ursolic ethosomes as a transdermal vehicle. Method: Ursolic acid ethosomes were prepared by injection method, and the shape and particle size of the ethosomes were analyzed. Ursolic acid permeation tests *in vitro* through the skin of rats were performed in TP-3 diffusion cell. The accumulated permeation amounts of ursolic acid 10% isopropanol solution, ursolic acid liposomes, ursolic acid ethosomes were compared. Result: The average encapsulation percentage, particle size, and Zeta potential of the ethosomes were (95.83±0.86)%, (87.5±7.5) nm and (-38.4±3.6) mV, respectively. The accumulated permeation amount of the ethosomes in 12 h was 146.49 μg·cm<sup>-2</sup>, and its transdermal permeability in 12 h was 12.17 μg·cm<sup>-2</sup>·h<sup>-1</sup>. Conclusion: The encapsulation percentage of the ethosomes is good, and the stability of the ursolic acid ethosomes is fine. Ethosomes can significantly enhance the diffusion rate of ursolic acid through the skin of rats.

keywords:ursolic acid ethosomes transdermal diffusion *in vitro*

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