中国现代应用药学
Chinese Journal of Modern Applied Pharmacy
全国性科技期刊
全国中文核心期刊
中国科技论文统计源期刊

罗穆潮,王冶闽,杨燕.阿昔洛韦温敏凝胶的制备及评价[J].中国现代应用药学,2012,29(9):819-822

阿昔洛韦温敏凝胶的制备及评价

Preparation and Evaluation of Aciclovir Thermosensitive Gel

投稿时间： 2011-09-30 最后修改时间： 2012-05-03

DOI：

中文关键词： 阿昔洛韦 温敏凝胶 体外评价

英文关键词:aciclovir thermosensitive gel in vitro evaluation

基金项目:

作者	单位	E-mail
罗穆潮	浙江工业大学，杭州 310014	luosean@163.com
王冶闽	浙江工业大学，杭州 310014	
杨燕*	浙江工业大学，杭州 310014	yangyan10@hotmail.com

中文摘要:

目的 制备阿昔洛韦温敏凝胶，对其理化特性和使用效果进行初步评价。方法 以泊洛沙姆407为凝胶基质，制备阿昔洛韦温敏凝胶剂。采用试管倒置法研究相变行为。采用紫外分光光度法测定含量，采用Franz扩散池法考察体外释药行为，家兔皮肤局部使用初步评价胶凝效果和刺激性。结果 制得阿昔洛韦温敏凝胶外观均一透明，胶凝温度约27 ℃，相变可逆，含主药(2.86±0.02)%，体外缓释6 h，符合一级释药特性。家兔皮肤局部使用证明其分散性良好，胶凝时间为(10±1) s，药物滞留量约为溶液剂的6倍，且无皮肤刺激性。结论 制得阿昔洛韦温敏凝胶剂，质量评价结果良好。

英文摘要:

OBJECTIVE To prepare and evaluate Aciclovir Thermosensitive Gel (ACV-TG). METHODS Poloxamer 407 was selected to prepare ACV-TG. Tube-inversion method was carried out to investigate phase transition behavior. UV method was employed to determine drug content. Franz diffusion cell was used to investigate drug release property. Rabbits were used to evaluate the gelation effect and skin stimulus. RESULTS The prepared ACV-TG was uniform and transparent, with a content of (2.86±0.02)%. The gelation course was reversible at a temperature about 27 ℃. It was sustained released in vitro, fitted by first-order equation. Fine dispersion and no skin stimulus were observed, while the drug retention was five times more than that of solution. And the gelation time was (10±1) s. CONCLUSION ACV-TG was successfully prepared and the properties were qualified.

查看全文 查看/发表评论 下载PDF阅读器

关闭