

## 葛根素微乳凝胶的制备及体外释放度的研究

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中文摘要:目的:制备葛根素微乳凝胶并考察其体外释放度。方法:采用Frans扩散池对葛根素微乳凝胶进行体外释放实验研究。结果:微乳凝胶在前5h内释放较快,后19h释放稳定。体外释放度经一级、零级和Higuchi方程3种常用的数学模型拟合,结果葛根素微乳凝胶的体外释药符合Higuchi释放模型。结论:葛根素微乳凝胶体外释放性能良好,有一定的缓释作用。

中文关键词:[葛根素](#) [微乳凝胶](#) [体外释放度](#)

## Study on preparation and in-vitro release rate of puerarin microemulsion-based gel

**Abstract:**Objective: To prepare the microemulsion of puerarin microemulsion-base gel, and to study its release rate in vitro. Methods: We studied on the release rate in vitro of puerarin microemulsion-base gel by modified Franz diffusion cell. Results: In the first 5 hour, the microemulsion gel released fast. After the 19 hour, it had stable release. Through the first-order equation, zero-order equation and Higuchi equation of 3 kinds of commonly used mathematical model fitting, the results showed that the puerarin microemulsion gel in vitro release conformed to Higuchi release model. Conclusion: Puerarin microemulsion gel had a good performance of release rate in vitro, and had a certain slow release effect.

**keywords:** [puerarin](#) [microemulsions gel](#) [release rate in vitro](#)

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