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论文

微渗析结合RP-HPLC研究盐酸平阳霉素在家兔血中的药代动力学

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1. 河北医科大学 第四医院, 河北 石家庄 050011; 2. 沈阳药科大学 药学院, 辽宁 沈阳 110016 摘要:

采用微渗析技术研究盐酸平阳霉素在体药代动力学,用Supelco RP-amide C_{16} 柱进行样品的HPLC分析,盐酸平阳霉素的血药浓度用3P87程序处理。结果表明,家兔静注盐酸平阳霉素后,渗析液中的药物浓度在1.04~66.56 μ g·mL⁻¹时,浓度与峰面积有良好的线性关系(R^2 =0.999 4)。微渗析探针的在体回收率为(42.8±3.4)%(n=6)。所测血药浓度经3P87程序拟合后,药-时曲线符合二室模型, $T_{1/2}$ a及 $T_{1/2}$ b分别为14.9及60.3 min。因此,该方法可用于盐酸平阳霉素药代动力学研究。

关键词: 盐酸平阳霉素 微渗析 反相高效液相色谱法 血药浓度

Pharmacokinetics of pingyangmycin hydrochloride in rabbits determined by microdialysis coupled with RP-HPLC

SHI Jian; GAO Zi-bin; WEI Jing; DING Ping-tian; CHEN Da-wei

Abstract:

Microdialysis coupled with RP-HPLC was used to study the blood pharmacokinetics of pingyangmycin hydrochloride in rabbits. Supelco RP-amide C_{16} column was adopted for the analysis of pingyangmycin hydrochloride. The data was analyzed with 3P87 program. The calibration curve was linear in the concentration range from 1.04 to 66.56 $\mu g \cdot m L^{-1}$ ($R^2 = 0.999$ 4). The in vivo recovery of microdialysis probe was (42.8±3.4)% (n=4). The concentration-time curve of pingyangmycin hydrochloride was fitted to two-compartment model. $T_{1/2}$ and $T_{1/2}$ were 14.9 and 60.3 min, respectively. The method is proved to be accurate, simple and suitable for the pharmacokinetics study of pingyangmycin hydrochloride in rabbits.

Keywords: microdialysis RP-HPLC blood drug concentration pingyangmycin hydrochloride

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