

论文  
反相高效液相色谱法测定普萘洛尔血药浓度及药代动力学的研究

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摘要:

关键词: 普萘洛尔 血管性偏头痛 反相高效液相色谱法 药代动力学

DETERMINATION OF PROPRANOLOL IN HUMAN PLASMA BY REVERSED PHASE HIGH PERFORMANCE LIQUID CHROMATOGRAPHY

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Abstract:

This paper investigates the determination method of propranolol in human plasma by HPLC. YWG-C<sub>18</sub>H<sub>37</sub> column was used with CH<sub>3</sub>OH-H<sub>2</sub>O-0.2mol/L KH<sub>2</sub>PO<sub>4</sub> 0.2mol/L Na<sub>2</sub>HPO<sub>4</sub> (460:40:0.7:4.7) as mobile phase. The preparation of plasma sample: Transfer 0.5 ml plasma into a 5 ml polystyrene test tube with cap, add 0.8 ml of 0.2% sodium hydroxide solution into the plasma. Propranolol was extracted with ether. External standard was used for quantitation. The assay was evaluated using the reproducibility within day and day-to-day, and demonstrated high precision. Their average coefficients of variation were 5.8% and 6.8% respectively. The standard curve was linear (r=0.9999) over the range of 0.05~2.00µg/ml, the average recovery was 95.9±4.5%.

Keywords: Vascular headache Reversed phase high performance liquid chromatography Pharmacokinetics Propranolol

收稿日期 1986-04-02 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者:

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