

论文

毛细管气相色谱-电子捕获法测定人血清中5-单硝酸异山梨醇酯的浓度和药代动力学参数

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摘要:

关键词: 5-单硝酸异山梨醇酯 毛细柱气相色谱-电子捕获检测

GAS CHROMATOGRAPHIC METHOD WITH EC DETECTION TO DETERMINE ISOSORBIDE-5-MONONITRATE (IS-5-MN) IN HUMAN SERUM AND ITS PHARMACOKINETIC PARAMETERS

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Abstract:

A simple, sensitive and precise capillary GC-ECD method was developed for the determination of isosorbide-5-mononitrate in human serum, Pharmacokinetic parameters of the drug was obtained from the human serum level-time curve measured. Serum samples were extracted with a mixture of ethyl ether-ethyl acetate(4:1), the upper phase was collected and evaporated to about 100μl under a gentle nitrogen stream, Isosorbide dinitrate was used as internal standard. With a human serum sample size of 200μl, the detection limit of IS-5-MN was found to be about 5 ng/ml, and the average recovery from 74% to 85%. The within-day and between-day relative standard deviation were less than 7% and 9%, respectively. This method was applied to the pharmacokinetic studies of IS-5-MN tablets from two different sources. Two sets of t1/2(Ke), Tmax and AUC values obtained from 8 volunteers were tested statistically and no significant difference was found.

Keywords: Capillary GC-ECD Isosorbide-5-mononitrate

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