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HIGH PERFORMANCE LIQUID CHROMATOGRAPHY METHOD FOR DETERMINATION OF NIFEDIPINE IN HUMAN PLASMA

MOHAMMAD ABDOLLAHI, MORTEZA PIRALI, MUSTAFA KARIMF, MASHAALLAH SHAHRIARIAN ABBAS SHAFIEE

Abstract:

A relatively simple normal phase high performance liquid chromatography (HPLC) method was modified for determination of nifedipine in human plasma. The method is based on ultraviolet detection at 235 nm and acidic plasma extraction by a mixture of dichloromethane (30%) and n-hexane (70%) using nimodipine as an internal standard. The system was stabilized with the use of n-hexane (80%), chloroform (17%) and methanol (3%) as mobile phase. The assay was linear up to at least 120 ng/ml of nifedipine in plasma. The limit of reliable determination was at least 3 ng/ml plasma. The reproducibility of the method was satisfactory. The procedure can be used effectively to quantitate nifedipine in the human plasma.

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