Quantitation and Method Validation for the Determination of Flurbiprofen by High-performance Liquid Chromatographic Assay (in Chinese)

吳安邦
Lo CW;Liou YB;You YH;Wu AB

Abstract

A rapid, specific and reliable high performance liquid chromatographic assay of flurbiprofen in dosage forms has been developed. Reversed-phase chromatography was conducted using a mobile phase of 0.05 M ammonium acetate and acetonitrile, (40% v/v) PH 5.2 and detection at λ 247 nm. The recovery and coefficient of variation from six placebo tablets spiked with 100 mg of flurbiprofen were 100.1% and 0.4% respectively. Replicate regression analyses of three standard plots in the concentration range 0.5 - 9 mcg/ml obtained on three different days gave a correlation coefficient (0.99996) and the coefficient of variation of the slopes 0.159%. The assay was precise within day and between days as indicated by ANOVA test. It is suggested that the proposed HPLC method should be used for routine quality control and dosage form assay of flurbiprofen.