



Bio-Analytical Method Development and Validation for the Estimation of Oseltamivir in Human Plasma by RP-HPLC

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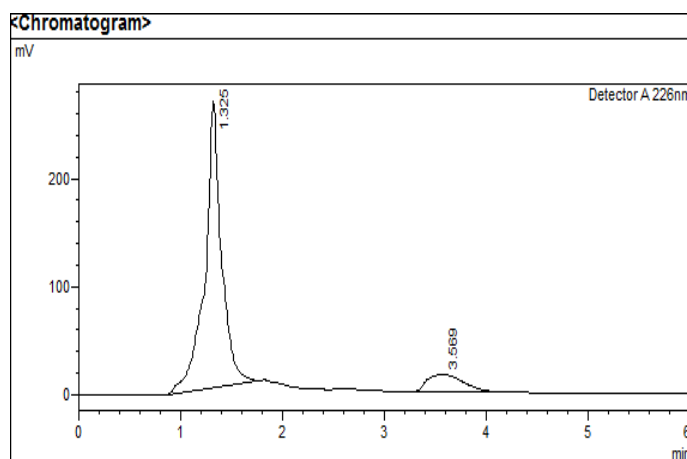
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ABSTRACT

A novel, precise, accurate and rapid isocratic reversed phase high performance liquid chromatographic method was developed and validated for the estimation of Oseltamivir in human plasma. The method showed good separation and resolution for Oseltamivir with hypersil ODS (C18) column (4.6 x 250 mm, 5 μ m) using Acetonitrile and water (70:30) as mobile phase at a flow rate of 1 mL/min and wavelength of 226 nm. The calibration curves were linear over the concentration ranges of 10-50 μ g/ml for oseltamivir respectively. All the analytes were separated within 5 min. The proposed method could be applied for the routine laboratory analysis of Oseltamivir in human plasma samples and analysis of Oseltamivir in pharmaceutical formulations.

Graphical Abstract



Typical chromatogram of oseltamivir

Keywords: Oseltamivir, RP-HPLC, Human plasma.