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Simultaneous Estimation of Drugs by RP-HPLC

By Mukesh Maithani

LAP Lambert Acad. Publ. Jan 2011, 2011. Taschenbuch. Book Condition: Neu. 220x150x8 mm. This item is printed on demand - Print on Demand Neuware - A new, simple, rapid, selective, precise and accurate isocratic RP-HPLC assay has been developed for simultaneous estimation of Ciprofloxacin Hydrochloride, Ofloxacin, Tinidazole and Ornidazole in tablet formulations. The separation was achieved by using C-18 column (Phenomenax, 250 x 4.6mm i.d.) coupled with a guard column of same material, in mobile phase Acetonitrile: Water: Tri ethylamine (25:75). The pH of mobile phase was adjusted to 6.0 ± 0.1 with 50% ortho phosphoric acid. The flow rate was 1.0 mL.min⁻¹ and the separated drugs were detected using UV detector at the wavelength of 300 nm. The retention time of Ciprofloxacin Hydrochloride, Ofloxacin, Tinidazole, and Ornidazole was noted to be 2.7, 3.5, 4.5 and 5.8 min, respectively, indicative of rather shorter analysis time. The method was validated as per ICH guidelines. The proposed method was found to be accurate, reproducible, and consistent. It was successfully applied for the analysis of these drugs in marketed formulations and could be effectively used for the routine analysis of formulations containing any one of the above drugs, or a combination, without any...



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