



RP-HPLC Method for Simultaneous Estimation of Nitazoxanide and Ofloxacin in Bulk Drug and in Pharmaceutical Formulation

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Abstract : A simple, precise, accurate, rapid and reproducible reverse phase high performance liquid chromatographic procedure was developed for simultaneous determination of nitazoxanide and ofloxacin in tablet dosage form was carried on an Inert ODS-3V (250X4.6 nm, 5micro) column using a mobile phase consisting of methanol and buffer (20:80 v/v) with a pH3.3 \pm at a rate of 1.5 ml/min and the detection was carried out at 230 nm. The linearity was found to be in the range of 5-60 μ g/ml and 2-24 μ g/ml Nitazoxanide and Ofloxacin respectively with ($r^2=0.9990$, and $r^2=0.9994$). The peaks obtained were sharp having clear baseline separation with a retention time of 9.093 ± 0.03 and 5.946 ± 0.03 min for Nitazoxanide and Ofloxacin respectively. The results of the analysis were validated statistically and recovery studies confirmed the accuracy of the proposed method.

Key word s: Nitazoxanide, Ofloxacin, RP-HPLC, Simultaneous Estimation.

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