Validated stability indicating RP-HPLC for quantitation of nitazoxanide in presence of its alkaline degradation products and their characterization by HPLC-tandem mass spectrometry

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Abstract

Abstract A simple and sensitive stability indicating HPLC method was developed and validated for quantitative determination of Nitazoxanide (NTZ), a new antiprotozoal drug, in presence of degradation products generated under forced alkaline hydrolysis. Chromatographic separation was achieved on Inertsil C8-3 column (150× 4.6 mm id) using a mobile phase composed of acetonitrile: 50 mM ammonium acetate buffer (50: 50, v/v, pH 5.0 adjusted with acetic acid) at a flow rate of 1 mL/min. Quantification was achieved with ...

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