

Abstract

A new procedure has been developed for separation and subsequent determination of betamethasone and chloramphenicol in pharmaceutical eye drop BETABIOPTAL[®] preparation. The analysis carried out using a mobile phase of acetonitrile / water (25:70, v / v), adjusted to a flow rate of 0.75 ml / min at a temperature of 30 ° C, sample injection 5 µL in the isocratic mode and the detection wavelength of 241 nm. Internal standard with similar properties as the two active substances has been selected as propylparaben. There was chosen for the separation column Synergi Fusion RP MS 2 cm × 2 mm, with a particle size of 2 µm. The peaks have sufficient resolution and symmetrical shape and one analysis lasted up to 2 min while maintaining the quality of measurements (accuracy and reliability). The optimized method was validated before the actual measurement.