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Original Articles

Spectrophotometric Determination of Some Cephalosporins in Bulk and in Pharmaceutical Formulations

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Pages 143-152 | Received 28 Jan 2016, Accepted 16 Mar 2016, Published online: 17 Jun 2016

Download citation https://doi.org/10.1080/22297928.2016.1191970 Check for updates

Abstract

A simple, accurate and sensitive spectrophotometric method has been developed for the analysis of four cephalosporins, ceftriaxone (CEFT), cefatoxime (CEFX), ceftazidime (CEZD) and cefepime (CEPM) in bulk and in pharmaceutical formulations. The method is based on the diazotization of cephalosporins in acidic medium, followed by coupling with 3-amino phenol (AP), to give orange red colored product having a λ_{max} of 500 nm. The calibration graphs are rectilinear in the concentration ranges 20-160 µg mL for CEFT, 20–140 µg mL^{-1} for CEFX & CEPM and 24 - 168 µg mL^{-1} for CEZD respectively in the final measured solution. All the optimum conditions are established and other analytical parameters are evaluated. Commonly associated excipients did not interfere with the determinations. Statistical analysis of results