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Development and validation of new rp - HPLC method for Ceftibuten in bulk and its pharmaceutical dosage form

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A simple, precise, rapid and accurate reverse phase HPLC method has been developed for the determination of Ceftibuten in bulk and its pharmaceutical dosage form. A symmetry C18 (4.6x150 mm, 5 mm, Make: XTerra) or equivalent was used with Photo Diode Array UV-Visible detector. The mobile phase consisting of a mixture of phosphate buffer and acetonitrile HPLC grade (40:60) as the mobile phase at a flow rate 1.0 mL/min, the detection was carried out at 228nm. The retention time of the drug was 2.435 minutes. The method was linear over the concentration range of 10-80 µg/ml. the limit of detection and limit of quantification were 0.11 and 0.34 respectively. The percentage recovery of Ceftibuten was 99.41-100.83%. The validation of method was carried out utilizing ICH guidelines.

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