



Estimation of Drugs and Pharmaceuticals Using Chloramine-T and Rhodamine-B Dye Couple

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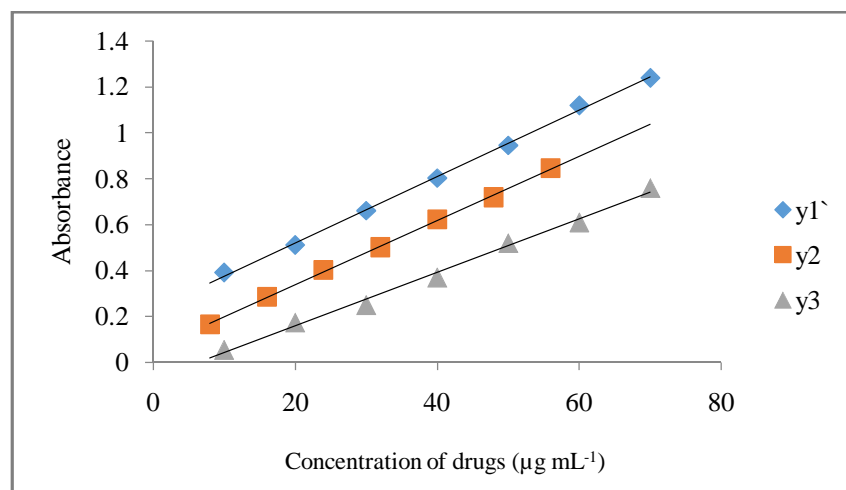
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ABSTRACT

A simple, sensitive and selective method has been developed for the spectrophotometric determination of drugs, viz., Naparoxen, Cefdinir, Paroxetine HCl, Ondansetron and Cefedaxitine. The proposed method involve the addition of excess Chloramine-T of known concentration in the presence of acidic medium and the unreacted Chloramine-T is determined by the measurement of the decrease in the absorbance of the dye Rhodamine-B dye. The colored species in acidic medium, reactants are allowed to react and the unreacted Chloramine-T is estimated by the measurement in the decrease in the absorbance of the Rhodamine-B dye (λ_{max} 557 nm). This method has been validated in terms of guidelines of ICH and applied to the quantification of selected drugs in bulk and dosage forms.

Graphical Abstract



Calibration Curves of NAP, CEFD, PAR.

Keywords: Spectrophotometry, Drugs, Chloramine-T, Rhodamine-B, Quantification, Validation.