



Pharmaceutical Analysis Using N-Bromo Succinamide and Rhodamine-B dye Couple: A Spectrophotometric Study.

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Abstract : Simple, sensitive selective and Precise methods are developed for the UV-Visible Spectrophotometric methods have been developed for the estimation of five drugs *VIZ.*, Pantoprazole (PNZ), Doxycycline Hyclate (DOX), Lansoprazole (LPZ), Omeprazole (OME) Carvedilol (CRV). The method involves the addition of excess NBS of known concentration in the presence of 1M HCl, reactants are allowed to react and the unreacted NBS is estimated by the measurement in the decrease in the absorbance of the Rhodamine-B dye (λ_{max}). This method has been applied for the estimation of drugs in their pure form as well as in tablet formulation. The results of analysis have been validated statistically for linearity, accuracy, precision, LOD and LOQ.

KeyWords: UV-Visible Spectrophotometry, Pantoprazole sodium, doxycycline hyclate, Lansoprazole, Omeprazole, Carvedilol, HCl, NBS, Rhodamine-B, Quantification, Validation.

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