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Development and Validation of Spectrophotometric Methods for the Assay of Atomoxetine Hydrochloride in Pharmaceutical Preparations

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ABSTRACT

Atomoxetine hydrochloride is the medicine for the treatment of an ADHD (Attention deficit hyperactivity disorder) approved by the Food and Drug Administration (FDA). *In this study, a new, precise simple, reliable and sensitive UV spectrophotometric method was developed and validated for the Atomoxetine Hydrochloride in bulk and in Pharmaceutical dosage forms. Atomoxetine Hydrochloride was estimated at 520-740 nm using 0.1 M Hydrochloric acid. An attempt is hereby made to develop simple spectro photometric method in 0.1 M Hydrochloric acid for its direct applicability in dissolution and bioavailability studies of drug in solid dosage forms. The drug obeyed the Beer's law in the range of 04-25 µg mL^{-1} and showed correlation coefficient 0.9999 at 585 nm. The results of analysis were validated by recovery studies. The % recovery was found to be 99.09 – 99.59%. The method was found to be simple, accurate, precise, economical, reliable and reproducible.*

Keywords: Development, Validation, Assay of Atomoxetine Hydrochloride.