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Development of Analytical Method by RP-HPLC Technique for Determination of Alprazolam in Pharmaceutical Dosage Form

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Abstract: A novel reverse phase liquid chromatographic method was developed and validated for estimation of short acting anxiolytic drug, alprazolam in its dosage form i.e. tablets. The reverse phase HPLC analysis was carried out on isocratic system. The column used was Peerless basic C18 (50mm x 4.6mm, 3 μ m) with ambient temperature. The mobile phase consisted of Buffer: acetonitrile in proportion 60: 40 % (v/v). The flow rate was maintained at 1 ml / min. The detection was carried out at wavelength 225 nm. The method was validated as per ICH guidelines for system suitability, linearity, accuracy and precision. The linear ranges were 5-15 μ g/ml for alprazolam. The accuracy and precision were found to be well within the acceptable limit. The method was successfully applied for determination of alprazolam in its dosage form with good recoveries.

Keywords : Alprazolam Potassium dihydrogen phosphate Acetonitrile HPLC.

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