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METHOD DEVELOPMENT AND VALIDATION OF A REVERSED PHASE HPLC METHOD FOR DETERMINATION OF ANASTRAZOLE AND TEMOZOLOMIDE IN PHARMACEUTICAL DOSAGE FORM

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Abstract. A new simple assay method has been developed and validated for the determination of Anastrazole and Temozolomide using reverse-phase high performance liquid chromatography in their pharmaceutical dosage form. The chromatographic separation was performed on an Inertsil ODS (4.6 x 150mm, 5μm) using mobile phase phosphate buffer pH 3.0 and methanol of 30:70% v/v at a flow rate of 0.8 mL/min. Analytes were detected at 260 nm. The method was found to be linear in the concentration range of 1-5 μg/mL for both medicaments with the coefficient value (R2) of >0.999. The accuracy was measured via recovery studies and found to be acceptable and the percentage recoveries were found in the range of 98.81-100.72 and 99.29-100.70%. The proposed method was successfully validated and applied for the quantitative estimation of these drugs in both bulk and tablet dosage forms.