**Research Paper**

# VALIDATION AND ANALYTICAL METHOD FOR THE SIMULTANEOUS DETERMINATION OF LAMIVUDINE AND ABACAVIR IN TABLET DOSAGE FORM

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A simple and new isocratic RP-HPLC method was developed and validated for the estimation of lamivudine and abacavir in pharmaceutical dosage form. The chromatographic separation was performed on Agilent Zorbax column (150×4.6mm, 5µm), mobile phase used for the analysis was prepared by the combination of 32.5 parts of methanol and 67.5 parts of 0.1% ortho phosphoric acid to prepare 32.5 : 67.5(v/v) mixture. The run time for the separation was fixed at 7min and the flow rate was maintained at 0.8ml/min with the detection wave length of 257nm. The column temperature was maintained at $28^0$c ± 5and performed the HPLC analysis. The retention times found to be 3.25 min and 2.17 min for abacavir and lamivudine respectively. Under these optimized conditions the respective drugs were shown symmetrical peaks with low tailing factor and high peak area without interference of any excipients. The proposed method was validated under the ICH guidelines and this method can be successfully used for the routine quality control analysis of combined dosage form.

**Keywords:**Abacavir, Lamivudine, High Performance Liquid Chromatography, Validation

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