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**REVIEW ARTICLE ON SIMULTANEOUS ESTIMATION OF ABACAVIR, LAMIVUDINE AND DOLUTEGRAVIR IN BULK AND PHARMACEUTICAL DOSAGE FORM BY RP-HPLC METHOD**

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**Abstract**

Pharmaceutical drug products play a major role on human lives which help in curing the various diseases. Now a day's many of the drugs are synthesized oftenly shows many thereuptic effect in their pharmaceutical formulations. At finally the biologically active substances are formulated into different formulations such as tablets, capsules, suspensions, ointments and an injectables. These drugs deliver the drugs and shows the therapeutic effect. At end the product should ensure the quality can be achieve by various analytical technique. The aim of this study mainly focuses on a powerful analytical technique such as chromatography method as HPLC shows wide application. By literature search it needs to develop new, simple and reliable analytical method development and validations.

**N. Khaleel Sk., et al., (2015)** were reported a new analytical method for Abacavir, Lamivudine and Dolutegravir in bulk and pharmaceutical dosage form by using Inertsil ODS 250×4.6 mm, 5µm particle size column, mobile phase consisting of pH 3.0 Phosphate buffer:Acetonitrile: Methanol (50:20:30 %v/v),The flow rate was 1.0ml/min and eluents were detected at 257 nm by using PDA detector.

**Chantelle Bennetto-Hood., et al.,(2015)** were reported a new analytical method for Dolutegravir in Human Plasma by HPLC-MS/MS Method by using XBridge (C18, 2.1 × 50 mm column), 60:40 acetonitril,water mobile phase containing 0.1 % formic acid.

**G. Srihari., et al., (2011)** proposed a simple, sensitive, accurate and economic methods for quantitative estimation of abacavir sulfate and its formulations. Based on the diazotization with a characteristic absorption maximum at 450 nm.

**Anil Yadav Nodagala., et al., (2013)** proposed a method for simultaneous determination of Abacavir Sulphate and Lamivudine in Tablet dosage using Inertsil ODS (150×4.6, 5µm) with UV detection at 254 nm, mobile phase composition of mixed phosphate buffer (pH 4.0) and acetonitrile at a flow rate of 1ml/min method is validated as per ICH and USP guidelines .

**Rajendran Vijayalakshmi., et al., (2013)** were reported a new analytical method for Simultaneous Determination of Lamivudine and Abacavir Sulphate in tablets, By using Phenomenex C18 (250 x 4.6 mm, 5 µm particle size) column, mobile phase of phosphate buffer (pH 7.8) and methanol in the ratio of 50:50 % v/v. The flow rate at 1.0 ml/min and detection was monitored at 216 nm.

**G. Sravan Kumar Reddy., et al., (2014)** were reported a new analytical method for lamivudine, abacavir & zidovudine by using UPLC, The mobile phase composed of Phosphate Buffer (60%) pH3.0 Methanol (40%) UPLC Grade. The flow rate at 0.25 ml per min. The wavelength was selected for the detection was 280 nm, the run time 3min.

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