

An Analytical Study on the Formulation and Verification of HPLC Procedure

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Abstract: HPLC is one of the most valuable types of column chromatography techniques used in pharmacy, pharmaceutical business, and biochemistry. It is utilized for the identification, separation, quantification, validation, and optimization of active substances. Drugs can be sorted, located, and measured using a separation process called HPLC [High Performance Liquid Chromatography]. This article focuses on the research, development, and manufacturing of innovative medications. In the human and animal studies as well. Developing and qualifying an HPLC technology requires a number of stages. It depends on the molecule's polarity, solubility, pH, PK, and other factors. Following ICH criteria for HPLC method validation provides information on performance aspects such as an important performance characteristics for method validation includes trueness, repeatability, selectivity, proportionality, working intervals, minimum quantifiable concentration, and method resilience.

Keywords: High efficiency chromatographic separation, Compound separation chromatographically technique, protocol establishment, procedure qualification, trueness, repeatability.

