Aim & Objective:

Market is flooded with combination of drugs in various dosage forms. The multicomponents formulation have gained a lot of importance nowadays due to greater patient acceptability, increased potency, multiple action, fewer side effect and quicker relief with one or more medicinally active ingredients.

In combination products, determination of individual drug content is difficult without separation due to the interference between the drugs as well as between the drugs and excipients. Day to day numbers of newer drugs acting on central nervous system and their formulations either in single or in combined dosage forms are marketed as well as are under investigation. Reported analytical methods for some drugs are available in literatures but are not stability indicating and some of them are time consuming. Although stability indicating methods have been reported for assay of various drugs in drug products, most of them describe assay procedures for drug products containing only one active drug substance. Only few stability indicating methods are reported for assay of combination drug products containing two or more active drug substances. There are some research papers, which are on different technologies. These technologies cannot be utilised due to its availability and operative cost.

The objective of this work was:

- To develop a simple, precise, accurate, rapid, economical & stability indicating analytical method for estimation of drug in formulation using HPLC method.
- To develop a Stability indicating analytical method to estimate the drug content in the various formulations.
- Scientist as well as industrial community to make a use of research work for the formulation of good quality of pharmaceutical dosage forms.

Several instrumental techniques like HPLC, GLC, Fluorimetry, NMR, Mass spectroscopy, spectrophotometry covering IR, UV and visible regions available for the drugs. These methods are based upon the measurement of specific and nonspecific physical properties of the substances.
AIM & OBJECTIVE

UV spectrophotometry combines the advantages of low cost and simplicity with the possibility of achieving high sensitivity and selectivity with good precision, accuracy and reliability.

HPLC methods possess the advantages of speedy separation, high resolving power, high sensitivity and accurate quantitative measurements. Keeping simplicity in view, the candidate has examined the present state of development of instrumental methods of analysis for some of the widely used pharmacodynamic and chemotherapeutic drugs.