NEED FOR STUDY

A drug may be defined as a substance meant for diagnosis, cure, mitigation, prevention, or treatment of diseases in human beings or animals or for alternating any structure or function of the body of human being or animals. Pharmaceutical Chemistry is a science that makes use of general laws of chemistry to study drugs i.e., their preparation, chemical natures, composition, structure, influence on an organism. It also studies the physical and chemical properties of drugs, the methods of quality control and the conditions of their storage etc. The family of drugs may be broadly classified as

1. Pharmacodynamic agents and
2. Chemotherapeutic agents

It is necessary to find the content of each drug either in bulk or single or combined dosage forms for purity testing. It is also essential to know the concentration of the drug and it’s metabolites in biological fluids after taking the dosage form for treatment.

The scope of developing and validating an analytical method is to ensure a procedure which is specific and accurate for a particular analyte. The primary objective is to improve the conditions and parameters to be followed in the development and validation.

The methods which are reporting for the selected formulation by RP-HPLC and HPTLC are not reported in the literature. These combinations are also not present in any of the official monographs and therefore require much more investigation.
Hence, the present work aims at developing newer validated analytical methods which are simple, accurate, rapid, precise, sensitive and reliable, for the analysis of drugs in pharmaceutical dosage form.