

## PREFACE

India is exporting generic drugs under different brand names to various countries around the globe. The quality, efficacy and safety of different pharmaceutical formulations are regularly monitored by various regulatory bodies. The analytical techniques confirm the quality, safety and efficacy of the products that are manufactured for exporting to various parts of the world. Analytical techniques are mainly categorised into three types such as titrations, chromatographic techniques and spectroscopic techniques.

In the present work we have selected chromatographic technique for the estimation of selected drug candidates which are having medicinal significance.

HPLC is one of the rapidly emerging techniques for the analysis of various compounds in analytical research laboratories, because of its sensitivity, selectivity and faster analysis rate. There are two main types of HPLC techniques widely used based on mode of separation.

a) Normal phase high performance liquid chromatography (NP-HPLC) b) Reverse phase high performance liquid chromatography (RP-HPLC). Since most of the pharmaceutical products are polar in nature RP-HPLC is widely used for the separation and estimation than NP-HPLC. It is the method of choice since the procedure adopted for analysis is validated as per ICH Q2 (R1) guidelines and the results obtained are accurate, precise and reproducible.

All the above discussed matter drawn the interest of author to develop new methods for the following selected drug candidates in their pure and tablet dosage forms. The drugs and drug combinations selected for the analysis are

- Rimantadine Tablets marketed with brand name **FLUMADINE**.
- Cidofovir Injection marketed with brand name **VISTIDE**.
- Pranlukast Capsules marketed with brand name **ONON**.
- Sofosbuvir and Velpatasvir tablets marketed with brand name **SOFOSVEL**.
- Montelukast, Desloratadine, Acebrophylline tablets marketed with brand name **ACMON-DM**.
- Pantoprazole, Chlorzoxazone, Diclofenac capsules marketed with brand name **ALLDEX-DT PLUS**