Aim and Objectives

This study is aimed at achieving the following objectives:

I. To develop and validate analytical method for estimation of sitagliptin phosphate in bulk and formulation by UV spectroscopy and HPLC.

II. To develop analytical method for sitagliptin phosphate in human plasma by LCMS.

III. To develop and validate analytical method for estimation of cefuroxime axetil by HPTLC.

IV. To study polymorphism of cefadroxil monohydrate and cefuroxime axetil.

V. To synthesize a new salt of bromhexine and p-toluene sulfonic acid and isolate as a crystal followed by evaluation using single X-ray diffraction.