PLAN OF WORK AND METHODOLOGY

The whole study is divided into various phases to generate data.

Following are the phases:

1. Review of Literature
2. Selection of the 3rd generation drugs
3. Selection of the dosage form for the same
4. Method development by trial & error method
5. Checking various parameters for developed method
6. Validation of developed method for bulk raw and dosage form
7. To prepare commercial viability of validated method
METHODOLOGY:

Review of Literature

This will be a continuous process from starting till the finalization of the work. The sources utilized would be Books, Standards like IP, USP, Extra Pharmacopeia WHO guidelines etc., Journals including National and International, Patent, historically established and Internet.

Selection of the 3rd generation cephalosporin drugs

Selection of 3rd generation cephalosporin drugs based upon the literature survey like Cefixime, Cefoperazone, Cefpodoxime, Cefuroxime, Cefpodoxime, Ceftriaxone, Cefdinir

Selection of the dosage form for 3rd generation cephalosporin drugs

Method development by trial & error method

Different analytical methods have been developed for determination of 3rd generation cephalosporin in raw material as well as in various dosage forms by trial and error methods.

Checking various parameters for developed method

Typical parameters used in analytical validation are:

- Specificity
- Linearity
- Accuracy
- Precision
- Limit of Detection
- Limit of Quantitation
- Robustness
- Ruggedness

Validation of developed method for bulk raw and dosage form

Validation of developed method for bulk and dosage forms have been done by using different validation parameters to determine purity and potency of an experimental API.

To prepare commercial viability of validated method