3.1 THE PLAN OF WORK OF THE PRESENT STUDY

1. To develop a method of analysis for Ceftriaxone Sodium percentage assay content and Ceftriaxone Sodium related substances and its method validation data by HPLC to prove the authentication of the method.

2. To develop a method of analysis for Cefotaxime Sodium percentage assay content and Cefotaxime Sodium related substances and its method validation data by HPLC to prove the authentication of the method.

3. To estimate the stability of reconstituted solution by analyzing the impurity content and assay content of Ceftriaxone Sodium after reconstitution of dry powder injection (study of intramuscular and intravenous usage) and their pH and clarity of the solution after reconstitution.

4. To check the interaction of Ceftriaxone Sodium with other drugs like Metronidazole etc.

5. To estimate the stability of reconstituted solution by analyzing the impurity content and assay content of Cefotaxime Sodium after reconstitution of dry powder injection (study of intramuscular and intravenous usage) and their pH and clarity of the solution after reconstitution.

6. To check the interaction of Cefotaxime Sodium with other drugs like Metronidazole etc.

7. Synthesis of Cefotaxime Sodium from 7-ACA and DAMA.

8. Identification and quantification of impurities in three different lots of market available samples of Ceftriaxone Sodium for injection.