

5.1. Summary and Conclusion

An attempt has been made to develop an analytical method to quantities the drug namely Artemether, Flucytosine, Divalproex sodium, Meclizine hydrochloride, Zoledronic Acid drug respectively.

The presentation of research work can be summarized as follows:

5.2. Chapter – 1.1 deals with “**Introduction**” includes Present industrial scenario, General introduction to pharmaceutical analysis, Importance of analytical method development, various advanced analytical techniques used in Analytical method development. It also gives advanced techniques used for validation of analytical method, Documentation, archiving and reporting advance techniques & finally it describes the objective of work.

Chapter – 1.2 Includes the “**Literature Survey**” which gives information on physiochemical properties, chemistry, therapeutic activities, pharmacokinetics, pharmacodynamic profile and existing analytical method for the determination of Artemether, Flucytosine, Divalproex sodium, Meclizine hydrochloride, Zoledronic Acid

5.3. Chapter – 2 “Introduction to Experimental Work” briefs details on drug molecule, and steps involved in analytical method development and sample preparation. It also provides different validation parameters.

5.4. Chapter– 3 “Experimental Work and Results” describes sequentially the various procedures & instruments used for development of analytical method for analysis of Artemether, Flucytosine, Divalproex sodium, Meclizine hydrochloride, Zoledronic Acid Each experimental work done is followed by results, in the form of tablets and graphs. This chapter also includes the stability indicating assay for the drug Artemether, Flucytosine, Divalproex sodium, Meclizine hydrochloride, Zoledronic Acid.

5.5. Chapter – 4 Is “**Discussion**” reviews closely the result obtained & draws inference based on work done.

5.6. Chapter – 5 “**Summary and Conclusion**” summarizes the project work and draws a conclusion about the established objective and its achievement with an insight into the future

Chapter – 6 “Bibliography” lists the various references used for the proposed research work scope of the work.

Conclusion:

Thus, the objective of project work to develop and validate suitable method for the determination of Artemether, Flucytosine, Divalproex sodium, Meclizine hydrochloride, Zoledronic Acid assay and related substance from API was achieved.

Developed and validated RP-HPLC for Artemether, Flucytosine, Divalproex sodium, Meclizine hydrochloride, Zoledronic Acid were found to be simple, rapid, specific, sensitive, precise and cost effective. These analytical methods can also be applied for assay and related substances stability testing studies for the respective drugs.