Acknowledgements

Today, at the acme of my dissertation, I gratefully remember my teachers, parents, colleagues, friends & well wishers. Words are few to express the feeling of thanks and gratitude to the following persons.

It is a great pleasure and honour to thank Hon'ble Chancellor, Sh. Tarsem Garg of MM University, for such a temple of education that they provided.

I would like to grab the opportunity to thank my supervisor Prof. (Dr.) Ashok Kumar, Department of Pharmaceutical Sciences, M.M. University, Mullana, for their immense support for the project. Sir you have been a great support for me, enlightening my path of education and knowledge. Thanks for your unparalleled and excellent guidance and continuous encouragement for my project.

With pride and pleasure, I am deeply indebted to my co-guide, who is having kind heart and helpful nature Prof. (Dr.) D.N. Mishra, Department of Pharmaceutical Sciences, G.J. University of Science and Technology, Hisar for his time to time valuable suggestions and remarks and his esteemed guidance and incessant encouragement to carry out my work with great care and precision which made my project a reality.

I feel immense pleasure by expressing my deep sense of gratitude and indebtedness to Prof. Dr. B Anoop Nair, M.M. College of Pharmacy, M.M. University, Mullana, who was kind enough to guide and supervise in research work and for the technical discussions on the spectral studies. He has been a person to instill in me a sense of commitment, dedication and optimism. I am really grateful to him for his expert suggestions, stimulating criticism and exhortation rendered throughout my research work.

Words would fail to express the crucial nature of interactive help I have received from Prof. Dr. Vipin Saini, M.M. College of Pharmacy, M.M. University, Mullana. I wish to pass a special thanks to him for encouragement & timely suggestions for the successful completion of my project work.

I am thankful to Dr. S.K. Singh, Reader, Department of Pharmaceutical Sciences, GJ UST, Hisar, for his valuable support, which helped me greatly in the successful completion of my thesis work.

A warm thanks to Mrs. Rekha Rao, Mr. Randhir Dahiya, Mrs. Suman Kantooj and Mr. Sumet Gupta for supporting me at various stages during my project and studies. I would like to thank all the teaching and non-teaching staff of the M M College of Pharmacy for their support.

I would like to cast a vote of thanks to my students Manisha Dalal, Soniya Madan, Harsh Bansal, Sushil Kumar, Sunny Sharma and Neeraj Gupta for their kind support throughout my project. A very special thanks to all laboratory Technicians for their valuable support in completing my research work and giving a wonderful environment in labs.

This dissertation is dedicated to my parents Sh. Mohan Lal Gupta and Smt. Krishna Wati and my beloved wife Smt. Sonia Gupta for without their blessings nothing would have been possible. My little angel, Mishika being the driving force behind me for my accomplishments and achievements.