

## **ACKNOWLEDGEMENT**

I would like to take this opportunity to offer my heartfelt thanks to a number of people without whose support and encouragement, this thesis would never have been possible.

In the first place, I would like to express my deepest gratitude to my guide, Dr. (Mrs.) Krutika K. Sawant, Professor of Pharmaceutics, for her supervision, advice, and guidance from the early stage of this research. Above all and the most needed, she provided unflinching encouragement and support in various ways. Her truly scientific intuition has made her a constant oasis of ideas and passions in science, which exceptionally inspire and enrich my growth as a student, a researcher and a scientist.

I express my sincere thanks to Dean, Faculty of Pharmacy and Co-ordinator, Shri G. H. Patel Pharmacy Building for providing the necessary laboratory facilities and congenial ambience. I owe my deepest gratitude to Prof. A. N. Misra and Dr Hetal Thakkar for their valuable suggestions and help whenever sought for.

I would like to acknowledge the generous help of pharma and non-pharma sectors of India and overseas for providing gift samples required for formulation development or their characterization.

I wish to express my heartfelt thanks to Ankit Desai and Chirag Makvana for introducing me to the various optimization algorithm. I would like to thank Rajesh for his timely help for formulation characterization. I wish to express my heartiest special thanks to Ganesh and Dr Vinod Aswal for their help for the neutron scattering study. I am thankful to Sun Pharmaceuticals Industries Ltd., Vadodara for carrying out Cryo-TEM. I am also thankful to Amar Sakure, Dhirajsir and Suraj for their help in chromatography method development. I wholeheartedly thank Bhumi, Zalak Parikh and Hiral for providing inputs while working on cell cultures. Special thanks to Pretox Research Centre, Surat for providing animals for research work.

My deep appreciation goes out to my Well-Wishers, colleagues, seniors and juniors of NDDS lab (Dexter's lab), Analysis lab and Pharmacology lab of Shri G. H. Patel Pharmacy Building.

I wish to express my thanks to non-teaching staff members at Pharmacy department, Kalabhavan, Shri G. H. Patel Pharmacy Building and especially Mayurbhai from University Head office for their kind co-operation.

Whatever Endeavour I have put to complete this work, would not have been possible without the support of my parents. I owe for their patience until completion of my dissertation.

I would like to thank everybody who was important to the successful realization of this thesis, as well as expressing the apology that I could not mention personally one by one.

**Kinjal J. Parikh**