



DEDICATED TO MY BELOVED

FAMILY

Few Words of Heartfelt Expressions...

Today with humility, misty eyes and folded hands when I thank Almighty in these blissful moments, I am also expressing my innermost into words. Research is an arduous task that involves consistent and dedicated mind with persistent hard labour put into it. This can only be possible with His benediction and grace.

Language is the most eloquent vehicle of human expression, yet on occasions one finds it difficult to get appropriate words to express an emotion fully. Speech fails me when I fumble for words to articulate my heart felt and sincere gratitude to my worthy supervisor, **Prof. (Mrs.) Sadhana J. Rajput**, whose continuous encouragement, invaluable guidance, constructive criticism, precious suggestions, crucial help, benevolent attention and tireless efforts enabled me to execute this project successfully. I will never forget the spirit of sincerity, devotion, dedication, moral certitude and ethics she has inculcated within me during this period.

I express my sincere thanks to **Prof. Ambikanandan Misra**, Head, Pharmacy Department, for having provided me with the necessary laboratory facilities and congenial ambience.

With great reverence, I also express my debt of gratitude to **Prof. R.S.R. Murthy, Prof. M.R. Yadav, Prof. S.H. Mishra, Prof. (Mrs.) R. R. Girdhar and Prof. (Mrs.) K. Sawant** Pharmacy Department, Faculty of Technology and Engineering, The Maharaja Sayajirao University of Baroda for their valuable suggestions and help whenever sought for.

I would like to express my cordial thanks to **Dr. (Ms.) R. Mashru**, (Redear, Pharmacy Department) and **Mrs. Vandana B. Patel**, Principal, Baroda College of Pharmacy for her timely help, moral support and useful guidance which helped me to achieve my target.

My sincere thanks are due to the **Dean**, Faculty of Technology and Engineering, The Maharaja Sayajirao University of Baroda, Vadodara for

providing me with the necessary facilities required for my research work.

*I am thankful to the **Head** (Pharmacology Department), Food and Drug Laboratory, Baroda for permitting me to carry out pharmacokinetic study at their lab.*

*I take this opportunity to thank **Dr. B. N. Suhagia**, Professor, L. M. College of Pharmacy, Ahmedabad for his keen interest and valuable support. He was always available to give me the valuable suggestions. My hearty thanks go to him.*

*I owe a deep sense of gratitude to **Prof. S. A. Shah**, L. M. College of Pharmacy, Ahmedabad for his kind co-operation and timely advice.*

*I wish to express my sincere thanks to **Mrs. Devyani R. Parmar**, Head, Pharmaceutical Analysis Dept., Food and Drug Laboratory, Baroda for their timely help, support and valuable guidance during the course of my work.*

*I am immensely thankful to Cadila Pharmaceutical Pvt. Ltd, Ahmedabad and Macleods Pharmaceuticals Laboratory, Daman for providing me gift sample of APIs. I am also thankful to **Gatteffose, France; Colorcon Asia Pvt. Ltd., Goa, India; BASF, Mumbai, India** and **Abitec Corporation, Ohio, USA** for providing gift samples of excipients.*

*I am thankful to **Mr. Anil Solanki**, Principal, Dharmaj Degree Pharmacy College, Dharmaj for his silent support during present research work.*

*I wish to express my sincere thanks to the entire **teaching staff**, **Mrs. Vaishaliben**, **Mrs. Hasumatiben** and other **non-teaching staff** of the Pharmacy Department for their kind cooperation.*

*I will be untrue if I fail to acknowledge the most valuable assistance and morale support extended to me by **Dr. Ragin Shah**, **Dr. Vijay Sutaria** and **Dr. Manish Umrethia**.*

I avail this rare opportunity to articulate my genuine appreciation to my most treasured friends, Adhvait, Viral, Pranav, Manan, Dinesh Mehta, Haresh Patel, Samir Suhagia, Vijay Parmar and Pathik Bramhakshtriya who helped me as and when required without giving second thoughts. Thanks are also

due to my friends and labmates, Pallavi, Manish,Punit, Aarti, Atul, Nitin, Ashutosh, Bhosale sir, Nagraj sir, Mayur sir, jolly, Chitrang, Rishit, Yogesh Raichandani, Hansaraj, Tushar, Munish and Pruthvi for making this time memorable, with lots of cherished reminiscences to look at back. I am also grateful to my juniors for their help whenever needed.

I am thankful to all those who have helped me in whatsoever manner during this work whom I might have missed inadvertently.

*This account would be incomplete without mention of my beloved **parents, my wife – Archita** and **my sister Kinjal** from whom I received the precious gift of astounding courage, tremendous power of endurance, dedication to the chosen task and moral support, which always inspired me for constant efforts and because of them only, I am able to walk on this weary road of life without tiredness.*

*Last but not the least I thank the **Almighty** for his unlimited favors showered upon me.*

Samir G. Patel
