

ACKNOWLEDGEMENTS

I take this golden opportunity to express a deep sense of gratitude to my esteemed guide, Dr. Ambikanandan Misra, Professor & Head, Pharmacy Department, Faculty of Technology and Engineering, M.S. University of Baroda, Vadodara, for his erudite guidance, kind co-operation, constructive critique, perpetual encouragement, timely advice, necessary facilities required for completing this studies and meticulous attention throughout the course of this work.

It gives me immense pleasure to express my heartfelt thanks to Dr. S.H. Mishra, Professor and Ex-Head, Pharmacy Department, **M.S. University of Baroda, Vadodara**, for giving me an authoritative support for the progress of my work.

I owe a deep sense of gratitude to Prof. R.S.R. Murthy, Professor in Pharmaceutics and Dr. (Mrs) Krutika Sawant, Reader, Pharmacy Department, M.S. University of Baroda, Vadodara, for their kind co-operation during this study.

My sincere thanks to the Dean, Faculty of Technology and Engineering, M.S. University of Baroda, Vadodara, for providing me with the necessary facilities required for my research work.

I am grateful to Jawaharlal Nehru Memorial Fund, New Delhi, for awarding me a Research Fellowship, without which, I would not have opportunity to do this work.

I wish to express my sincere thanks to the entire teaching staff of Pharmacy Department, M.S. University of Baroda, Vadodara, for their co-operation and support during this work.

I would be remiss on my part if I don't acknowledge the help and support extended by my colleagues directly or indirectly at various stages of my work.

I express my sincere thanks to the entire non-teaching staff of Pharmacy Department, M.S. University of Baroda, Vadodara, for their co-operation.

I owe special thanks to the staff of libraries of M/s Food and Drug Laboratories, SPARC, Faculty of Technology and Engineering, Smt. Hansa Mehta Library, M.S. University of Baroda, and CDRI, Lucknow and for allowing me to carry out the reference work without which it would have been merely impossible for me to complete this work.

My heartfelt thanks to Shri. Kamlesh Dudhara and Dr. S. Bhowmick , Sun Pharma Advanced Research Centre, Baroda, who helped in providing HPLC, NMR, DSC and NGI analysis of my samples and animals for my studies.

I express my sincere thanks to Dr. Ajay Khopade, Sun Pharma Advanced Research Centre, Baroda, for his valuable guidance and support during the work.

I am very much thankful to Mr. Mahavir Chougule, Pharmacy Department, M.S. University of Baroda, who helped me in bringing out the thesis in a presentable form.

No thanks would be enough to appreciate the moral support, constant encouragement and help of my wife, Sharmila. My daughter, Himali needs special mention for bearing with me.

My heartfelt gratitude to my dearest parents for their kind blessings, unbound affection and constant inspiration.

Ganesh S.