

ACKNOWLEDGEMENT

My years at the **Pharmacy Department, The M.S. University of Baroda** have been very fruitful and enjoyable. It is a pleasure to thank many people who made this thesis possible.

I express deep sense of gratitude to my Ph.D. supervisor **Dr. (Mrs.) S. J. Rajput, Professor of Pharmacy**, for her enthusiasm, inspiration, and great efforts to explain things clearly and simply which have shaped me as a researcher. She provided me encouragement, sound advice and great help while planning and executing the experiments throughout my tenure. I am truly indebted to her for the countless hours she patiently spent with me to get me here. Words cannot describe the joy it has been to work with her.

I sincerely thank and express my gratitude to **Prof. S.H. Mishra, Professor of Pharmacy**, Pharmacy Department, whose guidance, keen interest, helpful criticisms and encouragement served as a constant inspiration during my studies. His thorough approach will always be an inspiration.

My sincere thanks are also due to **Prof. R. Balaraman, Professor and Head and Dr. A. N. Mishra, Professor and Former Head, Pharmacy Department**, Faculty of Technology and Engineering, The M.S. University of Baroda, for providing necessary facilities.

My heartfelt thanks to **Dr. (Mrs.) Rajani Giridhar Coordinator, Center for PG studies and Research in Pharmacy**, The M. S. University of Baroda, for providing necessary facilities to carryout the research work.

I also extend my sincere thanks to all the teaching staff of Pharmacy Department, Faculty of Technology and Engineering, The M.S.University of Baroda.

I also thank to all non teaching staff of Pharmacy department for their co-operation and support.

I am thankful to M/s Anchrom Laboratory, Mumbai for providing HPTLC facility.

I am also thankful to M/s Zydus Cadila, Ahmedabad for providing animals required for the pharmacological study.

I thank Dr. Lal, Pharmanza Herbals, Dharmaj, for providing me PDA Detector Facility for the peak purity studies.

My thanks are due to Vaibhav Analytical Laboratory, Ahmedabad, for heavy metal analysis of the plant materials and microbial contamination studies.

I am also grateful to Dr. Ravindra Pasale Baroda Clinical Laboratory, Vadodora for his great help in histopathological studies.

I am also thankful to Mr. Dhyani, Ayurvedic College, Vadodara, for helping in purification and preparation of formulation.

No words can express my gratefulness towards my dear friends Ashutosh Pathak, Samir Patel, Hasumati Raj, Adhvait Dixit, Atul Badan, Punit Shah, Shital Gandhi, Dipti Ruikar, Nitin Dobariya and Arti Thakkar for their unforgettable help, support and encouragement during the entire tenure of work.

My sincere thanks are due to Somashekar Padashetty, Krishnamurthy G, Kiruba Florence, Mayur Patel and all my friends in the pharmacy department for their co-operation.

I convey my heartfelt thanks to Manish S. Lavhale for his undemanding support, inspiration and co-operation.

Any words of thanks are too little for the next set of individuals. My father, Shri D. N. Rai, and my mother, Sudha Rai, who laid the foundations of what I am. I gratefully acknowledge them and my family for their encouragement, prayers, magnificent support, love and patience throughout my years of education.

I also acknowledge all those who have directly or indirectly helped me in the fulfillment of this work.

I thank the Almighty for giving me the strength and patience to work through all these years so that today I can stand proud.

PALLAVI RAI