ACKNOWLEDGEMENTS

With great pleasure and honour I take this opportunity to express my sincere heart-felt gratitude to Prof. Y. K. Agrawal, Head, Pharmacy Department, Faculty of Technology and Engineering, M. S. University of Baroda for his valuable guidance, continuous help and inspiring encouragement throughout the course of this work.

I take this opportunity to express my grateful thanks to Prof. R. C. Desai, Dean, Faculty of Technology and Engineering, Late Prof. J. M. Lohar, then Head, Applied Chemistry for providing necessary facilities to carry out this research work.

I express my sincere gratitude to Dr. N. R. Patel and Dr. P. R. Patel for their constant care and advise.

I indeed wish to express my sincere thanks to Dr. (Mrs.) Sobhana Menon, Dr. P. C. Parekh, all my colleagues and friends of the Analytical Laboratory, teaching staff and non-teaching staff of the Pharmacy Department for their continuous help during the course of this work.

I am obliged to Head, Library and Information Division, Bhabha Atomic Research Centre, Bombay; Joint Director, Food and Drugs Laboratory, Baroda and Director, Indian Institute of Technology, Bombay for library facilities. I am grateful to the Director, Central Drug Research Institute, Lucknow and Head, R & D division, Atul Products Ltd., Atul, for providing spectral facilities.

My sincere thanks to the Council of Scientific and Industrial Research (CSIR), New Delhi for the award of research fellowship and the M. S. University of Baroda for research assistantship.

This acknowledgement shall not be complete unless I mention about the cooperation and encouragement given by my family members who have sacrificed their due share of pleasures and needs during completion of this thesis.

Finally, a word of thanks to Mr. P. S. Bhoite for his neat and efficient typing.

K. H. Desai)