

Acknowledgements

At the outset, I deeply thank my guide Dr. Shailesh R. Shah who with his keen guidance and inspiration helped me work on this thesis. His supervision helped me overcome some tough times in the synthetic work and also made me learn the tricks of the trade.

I thank Prof. Surekha Devy, Head, Chemistry Department for providing all the laboratory facilities for conducting the research work.

I am thankful to Prof. A. C. Shah, Dean, Faculty of Science for his support and help.

I thank Prof. A.K Rakshit, Chemistry Department for his concern and support for my research work.

I profoundly thank the C.C.Shroff memorial trust and Alembic Limited for all the financial assistance for carrying out the research work.

I thank Sun Pharmaceuticals Advanced Research Center (SPARC) and Alembic Limited for the IR and NMR spectra. I thank CDRI, Lucknow for the FAB-mass spectra. I thank Dr. S.S.Madhavarao for the elemental analyses of the synthesized compounds. I am also grateful to all teaching and non-teaching staff of chemistry department.

My thanks are due to Dr. Sujit Dutta for taking a keen interest and suggesting me some valuable tips in my research work.

I thank Dr. T. Raja Mannar, SPARC, Sun pharmaceuticals Limited, Dr. Bipin Pandey, Zydus Research Center and Dr. Acharyulu for supporting my research programme.

I thank Divya, my room partner for her help and co-operation. I thank all my colleagues for their co-operation.

Last but not the least I thank my parents, sisters, brother and Vinod for the support they lent me in pursuit of the doctorate.

Trupti V.A.
(Trupti Vyas)