Acknowledgement

I should thank Dr. K. Udaya Sankar, Scientist, Central Food Technological Research Institute (CFTRI), Mysore for having played an instrumental role in this thesis work.

I also offer my thanks to Dr. S. Divakar, Head, Fermentation Technology and Bioengineering, Central Food Technological Research Institute, Mysore for his constructive criticisms, particularly related to enzymatic synthesis.

I would like to acknowledge the support provided by technical officers Mr. T. Ramesh and Mr. K.G. Girish of CFTRI, Mysore in their help in conducting pilot plant studies.

My thanks are also due to Central Instruments Facility and NMR facility centre, CFTRI, Mysore for recording HPLC, LCMS and NMR spectra presented in this work.

I am thankful to all the staff and students of Food Engineering Department and other departments of the Institute for their help during my course of work.

My thanks also go to all the scientific and non-scientific staff of CFTRI, Mysore who have directly or indirectly helped me in carrying out this work.

I thank Director for providing me an opportunity to carry out my research work at the Central Food Technological Research Institute, Mysore.

I am also grateful to the Council of Scientific and Industrial Research, India.

I record my special gratitude to my wife, children and parents for their constant patience and support.

B. Manohar