I have pleasure to express my deep sense of gratitude to my research guide Dr. J. J. Trivedi, Principal, M. G. Science Institute, Ahmedabad, who provided an inspiring guidance, understanding and encouragement throughout my stay at M. G. Science Institute, Ahmedabad.

I wish to thank the members of the Chemistry Department and in particular Dr. K. C. Kshatriya and Dr. B. M. Desai, Heads of the Chemistry Department, M. G. Science Institute, Ahmedabad and Ahmedabad Education Society, Ahmedabad for providing the facilities to carry out research.

I wish to acknowledge the cooperation given throughout by my fellow research colleagues Messrs J. G. Kapadia, S. R. Dhruv, (Miss) J. S. Shah, (Miss) B. J. Trivedi, G. I. Dave and particularly S. D. Wadekar.

I am grateful to Dr. R. B. Doctor, Professor and Head of the Pharmacology Department, Dr. R. C. Rane and Mr. M. B. Asnani, B. J. Medical College, Ahmedabad for the Pharmacological Testing.

Thanks are due to Mr. P. S. Kshatriya for typing of the manuscript.

I am very much thankful to the Council of Scientific and Industrial Research for providing financial assistance in the form of fellowship during my research work.

At last, I am thankful to my parents who have given me the aptitude, opportunity and encouragement for higher studies.