ACKNOWLEDGEMENT

A journey is easier when you travel together. Interdependence is certainly more valuable than independence. Present work is the result of lot of hard work whereby I have been accompanied and supported by many people. It is a pleasure that I have the opportunity to express my gratitude for all of them.

First and foremost I would like to thank my inspiring guide Dr. KR. Anilakumar, Sc. ‘E’ Dept. of Biochemistry and Nutrition, Defence Food Research Laboratory, Mysore, for his constant technical guidance and his ever encouraging and suggestions. He graciously provided me an opportunity to derive advantage of his meticulous guidance, supervision and outstanding cooperation during the entire study of investigation and in preparation of the thesis.

I am overwhelmed with rejoice to avail this rare opportunity to express my heartfelt thanks and beholding gratitude for the kindness of to Dr. H.V. Batra, Sc. ‘G’ and Director Defence Food Research Laboratory, Mysore for his sustained interest, constant encouragement and support.

I express my deep and sincere gratitude to Dr. K. Radhakrishna, Sc. ‘G’, Additional Director, Head, HRD & Head, FD (APT) Division for his timely valuable suggestions, continuous support and encouragement. His enthusiasm, patience and integral view on research has helped me a lot in this work.

With utmost sincerity I am also thankful to Dr. A S Bawa, Sc. ‘H’ and former Director, Defence Food Research Laboratory, Mysore, for his valuable suggestions and encouragement.

I acknowledge with sincere gratitude and deepest regards to Dr. (Mrs.). Farhath Khanum Sc. ‘F’ and Head, Biochemistry and Nutrition, who spared her precious time to guide me throughout my course of work without which this work would not have been possible.

I acknowledge with sincere thanks to all the members of Doctoral Committee, for their constructive criticisms and valuable suggestions during the entire course of PhD.

I express my extreme indebtedness and heartfelt gratitude to Dr. M. Siddalingaswamy, Sc. ‘D’, Dr. S. Naveen, Sc. ‘C’, Dr. Ajay Pal, Sc. ‘C’, Dr. N. Ilaiyaraja, Sc. ‘C’, Dr. T. Anand, Sc. ‘D’ and Dr. G. Phanikumar, Sc. ‘D’ for their suggestions and support during my stay in the Division.

I express my sincere thanks to Mahadeva Naika STA ‘C’, Dongzarin Singist, STA ‘B’, Sunilkumar STA ‘B’ and Mrs. Sukanya PA ‘B’ for their moral support.
I am deeply expressing my sense of gratitude to Mr. Shivaramu, Mr. Ramamurthy, Mr. Venkatachaliah, Mrs. Devamma and Mrs. Lakshmi for their constant help in animal house for rendering unstinted support in conducting the various animal experiments and timely co-operation throughout the period of research work.

Indeed the words of my command are not adequate to express my deep sense of gratitude to my friend Mrs. D. Bhawya for her unfailing support, sharing knowledge, constant encouragement and moral support, which guided me to this art of success. Our numerous discussions and routine work in laboratory have given me the most interesting insights.

I would like to express my thanks to my friends Mr. M. P. Venuprasad, Mr. S.N.Harsha, Mr. K.Hemanth Kumar, Mr. M.D.Pandreesh, Ms. Sakina Razak, Mrs. M.V.Mithila, Mrs. Amreen Saba and Mrs. Rashmi for furnishing necessary aids to achieve this endeavor and also for their co-operation during the period of research work. For a long friendship and enjoyable moments during all through the work, I express my sincere thanks to Mrs. Raksha, Dr. A. Annapoorni and Ms. Aarthi. My friends softened the difficulties faced during the work and have helped me countless times.

I feel to convey my heartfelt reverence, indebtedness and humble respect to my parents, brother and in - laws whose love, blessing, inspiration, encouragement and unbarred assistance made me to achieve the most counted and cherished goal of higher education. In addition, my husband needs special thanks for always being there with heartfelt of love, encouragement and support.

With immense pleasure from the every depth of my heart, I acknowledge the wholehearted co-operation extended by all members of DFRL, Mysore, which has proved useful in the successful completion of this work.

Date: V. SARITHA