

ACKNOWLEDGEMENT

“A successful man is he who receives a great deal from his fellowmen, usually incomparably more than corresponds to his service to them. The value of a man, however, should be seen in what he gives and not in what he is able to receive”.

With these words of Albert Einstein, I would like to take the privilege to thank the selfless people from the core of my heart who with their constant support, affection, inspiration and encouragement made me feel comfortable to successfully complete this venture.

*Firstly, I would like to express my deeply involved gratitude to “**Ma Saraswati Ji**” for her blessing to me. I salute the great soul of **Mahamana Pandit Madan Mohan Malviyaji**, founder of this beautiful temple of learning. It will always be pride and honour for me to be student of B.H.U.*

*With immense pleasure, I express my sincere and heartfelt thanks and indebtedness, with a deep sense of gratitude, to my revered teacher and illuminated supervisor, **Dr. Senthil Raja A.**, Associate Professor of Pharmaceutical Chemistry, Department of Pharmaceutics, Indian Institute of Technology (Banaras Hindu University), whose patience and support was instrumental in accomplishing the project. I am thankful to him for his immense guidance, help, dedicated support, intellectual supervision and professional expertise he has bestowed upon me for the timely completion of this work. I thank him for the freedom of thought, trust and expression which he bestowed upon me. All in all, it is my fortune and so I am proud to have him as my guide.*

*I am indeed obliged and sincerely thankful to **Prof. S. K. Singh**, Head, and **Prof. B. Mishra**, Former Head, Department of Pharmaceutics, Indian Institute of Technology (Banaras Hindu University), for their constant support and encouragement and for providing necessary amenities for my research work.*

*I express my thanks to **Dr. K. Sairam**, Associate Professor of Pharmacology, Department of Pharmaceutics, Indian Institute of Technology (Banaras Hindu University), for rendering me permission to work in the Pharmacology laboratory to carry out the Pharmacological evaluation studies. I am thankful to him for his help, encouragement and the freedom that I enjoyed while doing pharmacological activities.*

Acknowledgement

I am very much grateful to all **my teachers**, Prof. R. S. Srivastava, Prof. S. K. Shrivastava, Prof. Sanjay Singh, Mr. A. K. Srivastava, Dr. Vikas Kumar, Dr. (Mrs) S. Hemalatha, Dr. A. N. Sahu, Dr. S. K. Mishra and Mrs. Ruchi Chawla for their timely guidance and help throughout my research.

My heartfelt thanks to **all my teachers** right from my school until now for their keen interest, constant encouragement and wishes for my career.

I am extremely thankful to **The Head**, Department of Chemistry, Faculty of Science, Banaras Hindu University, Varanasi, for providing ^1H and ^{13}C NMR spectra.

I am also thankful to **The Head**, Sophisticated Analytical Instrument Facility (SAIF), CRDI, Lucknow, for providing Mass spectra.

I am also thankful to **The Head**, Department of Ceramic Engineering, Indian Institute of Technology (Banaras Hindu University), Varanasi, for providing X-ray powder diffraction analysis.

I would also like to thank **Ayush pathology** for analyzing hematological parameters and histopathological examination during the in-vivo studies.

I would like to express my gratitude to **Ms. Shubhanjali Shukla, Mr. Debapriya Garabada, Mr. Gopal Kumar Rai, Ms. Sarita Kumari Yadav, Mr. Ajit Kumar Thakur, Ms. Deepali Pandey** and all other **Ph. D scholars** for their cooperation and valuable suggestions.

A special word of appreciation for the assistance given by my juniors **Mr. Sukesh** and **Mr. Rajat** for their timely help in carrying out the pharmacological activity during my research work.

Memorable thanks to my roommates, **Ms. Deepa** and **Ms. Anuranjeeta** and all who have bestowed love and help on me in timely completion of my thesis.

I extend my heartiest thanks to my juniors, **Mousami, Suruchi,** and **Shrabanti** for their support and making my stay at Varanasi a memorable and enjoyable one.

I pay my sincere thanks to Pathak ji, Nandlal ji, Sanjeev ji, Ramjiyavan ji, Chhotelal ji, Madan ji, Rafique ji, Jameel ji, Arun ji, Gopal ji, Virendra ji, Mrs. Archana Singh, librarian mam and other **non teaching staff members** for their assistance throughout my research work.

Acknowledgement

My heartfelt thanks to my closest aides and ally who stood by my side in my bad times and the love, encouragement, support they have provided will be remembered forever. Their undying optimism has boosted my life.

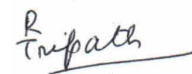
My Parents, Mr. Kailash Prasad Tripathi and Mrs. Maya Tripathi, my sister Priti and brother Shubham have been a strong pillar of support for me and my research wouldn't have seen the days light without their constant motivation. I owe them a lot. I would also take this opportunity to thank my in-laws for their blessings and encouragement in all aspects of life.

Words fail to express my immense appreciation for my husband, Mr. Raghvendra Mishra, who has been a source of moral motivation and emotional support to me.

It is my unfeigned desire to thank the Indian Council of Medical Research (ICMR), New Delhi and University Grants Commission, New Delhi, for providing me the financial assistance in the form of SRF.

With deepest gratitude and love, I bow down at the lotus feet of Almighty Lord Vishwanath, who has given me this opportunity to extend my gratitude to all those people who have helped me and guided me throughout my life. I bow my head in complete submission before him for the blessings poured on me. It was His will which brought me in B.H.U.

Finally, I express my gratitude to all the animals that I have used during my research work and express sympathy for those which were sacrificed during my research work.



Date: 07/04/2016

(Rati Kailash P. Tripathi)

Place: Varanasi