

ACKNOWLEDGEMENT

No success can be driven single handedly and this research work is no different. This research wouldn't have been what it is today without the endless efforts and immense support of some great personalities who hold important position in my life. These people have encouraged and motivated me through all the stages of the project and have helped me make this real. So, with immense pleasure I would like to express my deep gratitude towards them and acknowledge them.

First and foremost, I want to thank the person without whom this project wouldn't have taken shape. With profound pleasure I would like to take the opportunity to thank my guide **Dr. Hetal P. Thakkar**, Asst. professor, Faculty of Pharmacy, The Maharaja Sayajirao University of Baroda. She has guided me throughout my research work. I would like to thank **Dr. Krutika K. Sawant**, Dean of Department, Faculty of Pharmacy, The Maharaja Sayajirao University of Baroda for providing me a platform to exhibit my hard work.

I am at a short of words in thanking my parents **Shri Pradipkumar Babubhai Patel** and **Smt. Kalpanaben Patel** for making me what I am today. They have been the pillars for my success. A very special and sweet thanks to my grandad **Late Shri Babubhai Govindbhai Patel** for giving me the most cherishable memories of my life. I would also like to thank my wife **Raina Priya** for her constant support. I would also thank my grandmom, my brothers (**Bhavik, Bhavin** and **Yash**), **Krishna** along with my entire family for their immense support. I would also like to thank my Father-in-law **Shri Sheo Kumar Jha**, Mother-in-law **Smt. Bandana Jha** and brother-in-law **Vaishno Jha** for their support.

I would be failing in my duty if I don't mention my teachers and professors for shaping me into what I am today. Teachers not only impart knowledge but make us a better person. I wish to heartily thank **Dr. A.N Mishra** and **Dr. M.R. Yadav**. I would like to extend my thanks to the faculties of MSU who were always there for me **Dr. Kirti Patel, Dr. Hemal Tandel, Dr. Prashant Murumkar, Dr. Rajshree Masru, Dr. Navneet Prajapati, Mr. Bhavik Chauhan,**

I wish to thank **Kiranbhai** for providing me all the necessary chemicals and materials. I also want to thank the library staff for providing all the needed literature.

I would express my gratitude towards the non-teaching staff of MSU who have always provided me with everything needed **Vaishalimam, Bhoomimam, Jalpamam, Bharatbhai, Mayurbhai, Chiragbhai, Praveenbhai, Jagdishbhai, Naginbhai, and Prashantbhai.**

I am grateful to my all college and seniors for their immense help and guidance **Ankitbhai, Vivekbhai, Laljibhai, Jitubhai, Hardikbhai, Mahesh Barmade, Mohitbhai, Truptimam, Denish, Pravin, Parth, Shivangi, Parin, Monika, Rahul, Karan, Hardik.** I also want give a special thanks to Pharmacology, Medicinal Chemistry and QA department for their support for various analysis during my Ph.D. tenure.

I am also grateful to all my hostel friends who make my hostel second home like **Nimeshbhai, Sanjaybhai, Ashokbhai, Jigarbhai, Milan, Pravin, Darshan, Mahesh Barmade, Mohit, Denish, Hardikbhai, and Ankitbhai.**

I wish to thank those people also who has touched my life in one way or the other but I could not mention them here.

Last but not the least, I want to express deep gratitude towards **Faculty of Pharmacy, The Maharaja Sayajirao University of Baroda** which has given me something that cannot be expressed in words.

August 2022

Brijesh Pradipkumar Patel

Ph.D. Scholar