

Stealth Polymeric Nanocarrier for Controlled and Sustained Pulmonary Delivery of Drugs and Gene in Cystic Fibrosis

**A thesis to be submitted to
The Maharaja Sayajirao University of Baroda,
Vadodara for the Degree of**

**DOCTOR OF PHILOSOPHY
IN
PHARMACY**

**By
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**Supervised By
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*Dedicated to my family,
whose boundless faith and
encouragement
have enabled my success*



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CERTIFICATE

This is to certify that the thesis entitled “**Stealth Polymeric Nanocarrier for Controlled and Sustained Pulmonary Delivery of Drugs and Gene in Cystic Fibrosis**”, submitted for Ph. D. degree in Pharmacy by Mr. Atul Arun Kolate comprises the original research work carried out by him under my guidance and supervision.

Research Supervisor

Prof. Ambikanandan Misra
Pharmacy Department

Head

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DECLARATION

I hereby declare that the thesis on the topic entitled “**Stealth Polymeric Nanocarrier for Controlled and Sustained Pulmonary Delivery of Drugs and Gene in Cystic Fibrosis**” which is submitted herewith to ‘The Maharaja Sayajirao University of Baroda, Vadodara’ for the award of Ph. D. in Pharmacy is the result of work done by me in the Pharmacy Department, Faculty of Technology & Engineering, The Maharaja Sayajirao University of Baroda, under the able guidance of Prof. Ambikanandan Misra, Pharmacy Department, Faculty of Technology & Engineering, The Maharaja Sayajirao University of Baroda, Vadodara.

I further declare that the result of this work has not been previously submitted for any degree.

Place: Vadodara

Atul Arun Kolate

Date: June 23, 2014

Certified by and forwarded through the research guide,

Dr Ambikanandan Misra
Professor in Pharmacy & Dean,
Faculty of Technology & Engineering,
The Maharaja Sayajirao University of Baroda,
Vadodara-390001

*“Failure is the opportunity to begin again
more intelligently.”*

- Henry Ford

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