## Isolation, production and reaction conditions optimization of amidase of *Bacillus sp.* MNB1

A Major Project dissertation submitted in partial fulfilment of the requirement for the degree of

**Master of Technology** 

In

**Industrial Biotechnology** 

Submitted by

Monika Geetanjaly

(DTU/13/M.TECH/382)

Delhi Technological University, Delhi, India

Under the supervision of

Dr. Monica Sharma

**Assistant Professor** 



Department of Biotechnology Delhi Technological University (Formerly Delhi College of Engineering) Delhi-110042, India



## DEPARTMENT OF BIOTECHNOLOGY DELHI TECHNOLOGICAL UNIVERSITY BAWANA ROAD. DELHI-110042

## **CERTIFICATE**

This is to certify that the M. Tech. (Industrial Biotechnology) dissertation entitled "Isolation, production and reaction conditions optimization of amidase of *Bacillus sp.* MNB1", submitted by Monika Geetanjaly (Roll No. 2K13/IBT/14) in partial fulfillment of the requirement for the award of the degree of Master of Technology, Delhi Technological University (formerly Delhi College of Engineering, University of Delhi), is an authentic record of the student's own work carried out by herself. The information and data enclosed in this report is original and has not been submitted elsewhere for honoring of any other degree.

**Date: 15 July 2015** 

**Dr. Monica Sharma Assistant Professor**Project Supervisor
Department of Biotechnology

Delhi Technological University

(Dr. D. Kumar) Professor, HOD

Department of Biotechnology Delhi Technological University **DECLARATION** 

I hereby declare that the M. Tech major project dissertation entitled,

"Isolation, production and reaction conditions optimization of amidase of

Bacillus sp. MNB1" submitted by me to Delhi Technological University, Delhi

in partial fulfillment of the requirement for the award of the degree of M.

Tech Industrial Biotechnology is a record of bonafide work carried out by me

under the guidance of **Dr. Monica Sharma**, Assistant Professor, Department of

Biotechnology, Delhi Technological University, New Delhi.

I, further declare that the work reported in this report has not

been submitted, and will not be submitted, either in part or in full, for the

award of any other degree or diploma of this University or of any other

institute or university.

Date-15/07/2015

Monika Geetanjaly

Roll No. 2K13/IBT/14

**ACKNOWLEDGEMENT** 

At the very onset, I would like to express my sincere gratitude to my supervisor

Dr. Monica Sharma, Assistant Professor, Department of Biotechnology, Delhi

Technological University, for her guidance, continuous support, and expertise

throughout this study.

I am also thankful to Prof. D. Kumar, Head, Department of Biotechnology,

Delhi Technological University Delhi, and previous Head Dr. B.D. Malhotra for the

excellent opportunities and facilities provided for postgraduate education.

Thanks to all my seniors Dr. Rajkumar Bidlan, Dr Saroj Kumar, Dr. Satish

Kumar, Dr. Abhishek Saini, Dr. Saurabh Kumar and Dr. Vineet Kumar Goswami for

their advices and support during my research work. I am also thankful to Mr. Chhail

Bihari and Mr. jeetendra for their help during experimental work.

I am also thankful to my family and friends including, Sandeep, Sakshi, Ruchi,

Ashok & Brijesh who helped me for all the ways in my project work.

Place: New Delhi

Date: 15/07/2015

Monika Geetanjaly