

**Project Entitled**

**Green Synthesis of Silver nanoformulation using  
*Citrus sinensis* for Fabrication of Chitosan-silver  
Bio-nanocomposite film and its Application in  
Food packaging**

A DISSERTATION SUBMITTED TO THE

**DEPARTMENT OF STUDIES IN BIOTECHNOLOGY**

**UNIVERSITY OF MYSORE**

In partial fulfillment of the requirement for the award of the degree  
of

**MASTER OF SCIENCE**

**IN**

**BIOTECHNOLOGY**

Submitted by

**NAYANA B**

**Reg. No.: BT119124**

Work carried out under the guidance of

**Dr. Geetha N., M.Sc., M.Phil., Ph.D**

**Associate Professor**

**Department of Studies in Biotechnology**

**University of Mysore**

**Manasagangotri campus**

**Mysuru - 570006**

**October- 2021**



UNIVERSITY OF MYSORE  
DEPARTMENT OF STUDIES IN BIOTECHNOLOGY  
MANASAGANGOTRI, MYSURU - 570 006



Dr. Geetha N. M.Sc., M.Phil., Ph.D  
Associate Professor

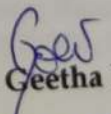
☎ 0821-2419462

Email: [geethabiotech.uom@gmail.com](mailto:geethabiotech.uom@gmail.com);  
[geetha@appbot.unimysore.ac.in](mailto:geetha@appbot.unimysore.ac.in)

### CERTIFICATE

This is to certify that the project work entitled "**Green synthesis of silver nanoformulation using *Citrus sinensis* for fabrication of chitosan-silver bio-nanocomposite film and its application in food packaging**" to be submitted to the University of Mysore, Manasagangotri, Mysuru, for the partial fulfillment of the award of the degree of Master of Science in Biotechnology is a record of original research work carried out by **Ms. Nayana.B**, under my guidance and supervision at the Department of Studies in Biotechnology, University of Mysore, Manasagangotri, Mysuru, during March-October, 2021.

NAYANA.B

  
Dr. Geetha N.

Dr. Geetha N. M.Sc., M.Phil., Ph.D., Post Doc.  
Associate Professor  
Dept. of Studies in Biotechnology  
University of Mysore, Manasagangotri,  
Mysuru-570 006, INDIA

Place: Mysuru

Date:

## DECLARATION

I, Ms. Nayana B, hereby declare that dissertation entitled "Green synthesis of silver nanoformulation using *Citrus sinensis* for fabrication of chitosan-silver biocomposite film and its application in food packaging" carried out by me during the period of March 2021 to October 2021, submitted to the Department of Studies in Biotechnology, Manasagangothri, Mysuru - 570006 for the partial fulfillment of the requirement for the award of *Master of Science in Biotechnology*. This is the record of the original work carried out by me, under the guidance of Dr. Geetha N, Associate Professor, DOS in Biotechnology, University of Mysore. I, further declare that the results of the work have not been previously submitted for the award of any degree or diploma in other university.

Nayana . B  
NAYANA .B

Geetha  
Dr. Geetha N. M.Sc., M.Phil., Ph.D., Post Doc  
Associate Professor  
Dept. of Studies in Biotechnology  
University of Mysore, Manasagangothri,  
Mysuru-570 006, INDIA

Valued

Place: Mysuru  
Date:

Manas  
8/10/21  
all  
8/10/21

Aparna H.S.  
Chairperson  
Chairman  
Department of Studies in Biotechnology  
University of Mysore, Manasagangothri  
Mysuru - 570 006