

# Project Report on



# Design, development and characterization of carboxymethyl pullulan-g-tannic acid/gelatin based sponges as hemostatic dressings

Submitted by

## **SUMON PAUL**

University Regn. No. - 221892310037 Roll No. - 18920322004

Under the guidance of

#### DR. HRIDAY BERA

Associate Professor, BCRCP

In partial fulfilment of the Requirement for the Degree of Master of Pharmacy in Pharmaceutics

Submitted to

Maulana Abul Kalam Azad University of Technology West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences Durgapur 713206

Academic Year: 2023 - 2024



Prof. (Dr.) Sanar Kumar Samanta M. Pharm., Ph.D (J.U.) Principal Dr. B. C. Roy College of Fnarmacy & AHS Durgapur, West Bengal-713206

# DECLARATION

I hereby declare that the Project entitled "Design, development and characterization of carboxymethyl pullulan-g-tannic acid/gelatin based sponges as haemostatic dressings" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Hriday Bera.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Sumon Paul Signature

Name of Candidate: SUMON PAUL

Roll No: 18920322004

Date: 06,06,2024

Place: DURGAPUR

amir Kumar Samanta M. Pharm., Ph.D (J.U.) Principal Dr. B. C. Roy College of Pharmacy & AHS Durgapur, West Bengal-713206

### CERTIFICATE

This is to certify that the Project entitled "Design, development and characterization of carboxymethyl pullulan-g-tannic acid/gelatin based sponges as haemostatic dressings" by Sumon Paul in partial fulfilment for the MASTER OF PHARMACY (PHARMACEUTICS) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Signature of Guide

Name of Guide: Dr. Hriday Bera

Place: Durgapur Date: 06.06.2024 Signature of the Externa

Examiner

Place: Durgapur

Date:

SAMIR KUMAR SAMANTA (PRINCIPAL)

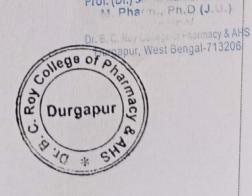
Prof. (Dr.) Samir Kumar Samanta M. Pharm., Ph.D (J.U.) Principal

Place: Durgapur

Date:

Dr. B. C. Roy College of Pharmacy & AHS Durgapur, West Bengal-713206





Kumar Samanta