



## CERTIFICATE

This is to certify that, the work incorporated in the dissertation entitled .Studies on Antibacterial activity of sweet orange and It's applications as hand sanitizer by Jagtap Shraddha Shivaji, Jagtap Sadhana Mohan and Shendage Ankita Digambar was carried out under my supervision at Department Of Microbiology, Tuljaram Chaturchand College, Baramati ,as a partial fulfillment of Msc Microbiology under Savitribai Phule Pune University,Pune .

All the information in this dissertation is genuine to the best of my knowledge.

Research guide

Internal examiner

Head of Department of Microbiology

External examiner