

**PHYTOCHEMICAL ANALYSIS, TOTAL PHENOLIC  
CONTENT AND THIN LAYER CHROMATOGRAPHIC  
(TLC) CHARACTERIZATION OF PHYTOCOMPOUNDS  
IN HEALTHY AND PHYTOPLASMA INFECTED  
ALTERNANTHERA SESSILIS L. EXTRACTS**

**The dissertation submitted to the University of Mysore  
for the partial fulfilment for the degree of**

**Master of Science in Botany**

**Submitted By,**

**Keerthana, Y.**

**Reg. No: P01ZZ21S0551**

**Under the guidance of**

**Dr. M.S.NALINI, M.Phil., Ph.D.**

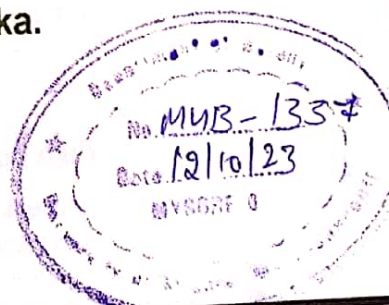
**Professor**

**Department of Studies in Botany**

**University of Mysore, Manasagangotri**

**Mysuru- 570006, Karnataka.**

**September - 2023**

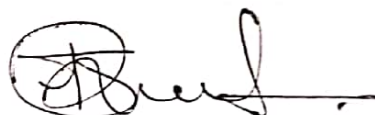


## CERTIFICATE

I, Keerthana Y., affirm that the project report titled "**Phytochemical analysis, total phenolic content and thin layer chromatographic (TLC) characterization of phytocompounds in healthy and phytoplasma infected *Alternanthera sessilis* L. extracts**" submitted by me, to the University of Mysore for the partial fulfillment of the requirements for the degree of Master of Science in Botany represents my own original work. The research was conducted under the guidance of **Dr. M.S. Nalini**, Professor at the Department of Studies in Botany, University of Mysore, Manasagangothri, Mysuru, during the academic year 2022-2023.


I further assert that the findings presented in this report have not been previously submitted for any other degree or diploma, either within this university or any other institution.

Date: 27/9/2023



Signature of the candidate

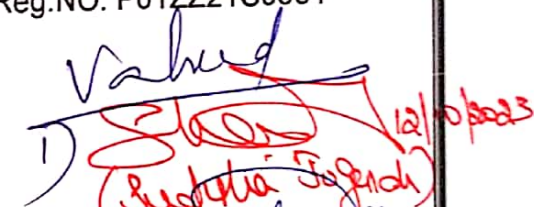
Reg.NO: P01ZZ21S0551



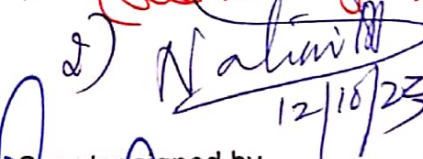
Signature of the Guide

**DR. M. S. NALINI** M.Sc., M.Phil., Ph.D.  
PROFESSOR  
DEPT. OF STUDIES IN BOTANY  
UNIVERSITY OF MYSORE  
MANASAGANGOTRI, MYSORE-570 006

Place: Mysore



1) *Keerthana Yegandi* 12/10/23



2) *Nalini* 12/10/23

Counter signed by



Signature of the Chairman

Institution name and Official seal

Professor and Chairman  
Department of Studies in Botany  
University of Mysore  
Manasagangothri, Mysore - 570 006