

**METHICILLIN RESISTANT *Staphylococcus aureus* [MRSA]- ONE HEALTH PROSPECTIVE APPROACH FOR THE ISOLATION AND IDENTIFICATION BY MALDI-TOF MS, ANTIMICROBIAL SUSCEPTIBILITY TESTING BY VITEK 2 COMPACT AND DETECTION OF BIOFILM FORMATION, AT TERTIARY CARE HOSPITAL**

Dissertation submitted in partial fulfillment of the requirement of the requirement for the award of the degree in

**MASTER OF SCIENCE IN BIOTECHNOLOGY**

**Submitted to**

Department of studies in Biotechnology  
University of Mysore

**Submitted By**

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**September 2023**

## DECLARATION

I, **H N AISHWARYA**, hereby declare that this study was carried out by me at National Institute of Mental Health and Neuro Sciences (NIMHANS), Bengaluru, under the guidance of **Dr. Veena Kumari**, Professor and Head, Department of Neuromicrobiology, NIMHANS, Bengaluru and **Dr. S Umesha** Professor and Head, DOS in Biotechnology, University of Mysore, Mysuru.

I also declare that the subject of this dissertation titled' entitled **Methicillin Resistant *Staphylococcus aureus* [MRSA]-One health prospective approach for the Isolation and Identification by MALDI-TOF MS, antimicrobial susceptibility testing by VITEK 2 Compact and detection of Biofilm formation, at tertiary care hospital** has not previously formed the basis for the award of any degree, diploma, associateship, fellowship or other similar titles.

Place: Mysore

Date: August 2023

*H. N. Aishwarya*

**H N AISHWARYA**

  
Signature of the Research Supervisor

Valued  
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2. *H.N. Aishwarya* 19/23

  
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