

“Methicillin-resistant *Staphylococcus aureus* (MRSA): One health prospective approach for isolation and identification by MALDI-TOF MS, antimicrobial susceptibility testing by Vitek Compact-2, and detection of biofilm formation at a tertiary care hospital”

Dissertation work submitted in partial fulfillment 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**

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SEPTEMBER - 2023

DECLARATION

I, SHWETHA G, hereby declare that the present dissertation entitled **Methicillin-resistant *Staphylococcus aureus* (MRSA): One health prospective approach for isolation and identification by MALDI-TOF MS, antimicrobial susceptibility testing by Vitek Compact-2, and detection of biofilm formation at a tertiary care hospital** was carried out by me for the partial fulfillment of the award of the degree of Master of Science in Biotechnology at the Department of Studies in Biotechnology, Manasagangotri, University of Mysore, under the guidance and supervision of Dr. H. B. VEENA KUMARI, Professor and Head of Dept. of Neuromicrobiology, NIMHANS, Bengaluru-29, and Dr. H.S. APARNA, Professor, Department of Studies in Biotechnology, Manasagangotri, University of Mysore, Mysuru, from May to August 2023.

I further declare that the work embodied in this dissertation is original and has not been submitted previously for the award of any other degree or diploma at this or any other university or institute.

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IV Semester, M.Sc. Biotechnology

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