

DIAGNOSIS OF INFLUENZA-A- VIRUS(IAV) BY USING REALTIME POLYMERASE CHAIN REACTION



Project report submitted in Partial fulfillment of the requirements for awarding the
degree of Bachelor of Science in Biotechnology

Submitted

to

Sub. Lt. Gedela Sam Babu
Head of the Department of Biotechnology,
Sri Yerramilli Narayana Murthy College, Narasapuram.

Submitted by
Chamakuri.Venkata Swathi (Regd.No: 12210008)



Under the supervisor of

Dr. P. Madhu Babu MSc., PhD.,
Director, Department of Molecular Biology,
Omics Nextgen Laboratories Pvt. Ltd.,
Old BJP Office Road, Bhimavaram-2,
West Godavari District, Andhra Pradesh.

Verified
28/3/2025

DECLARATION OF THE CANDIDATE



CERTIFICATE

This is to certify that Kum.Chamakuri.venkata Swathi of Sri Yerramilli Narayana Murthy College, Narasapuram) successfully completed the assigned bonafide project work titled: **"DIAGNOSIS OF INFLUENZA-A-VIRUS (IAV) BY USING REALTIME POLYMERASE CHAIN REACTION"** under the supervisor of Dr. P. Madhu Babu M.Sc., Ph.D., Director, Department of Molecular Biology, Omics Nextgen Laboratories Pvt. Ltd. Bhimavaram branch for the partial fulfillment of Bachelor's degree in Biotechnology.

Head of the Dept. of Biotechnology
Sri Y.N. College (A)
Accredited by NAAC at 'A' Grade With A
CGPA of 3.40
Recognised by UGC as 'College With
Potential for Excellence'
NARSAPUR - 534 275

DECLARATION BY THE CANDIDATE

We hereby solemnly declare that the work in this project entitled "**DIAGNOSIS OF INFLUENZA-A-VIRUS (IAV) BY USING REALTIME POLYMERASE CHAIN REACTION**" is submitted for the partial fulfilment of B.Sc. Degree in Biotechnology and is an original piece of research work done by me along with my peers under the guidance of P. Madhu Babu MSc., PhD., Director, Department of Molecular Biology Omics Nextgen Laboratories. I declare that parts of this work has been worked on and was submitted by my peers to their respective laboratories.

Chamakuri.Venkata Swathi

Date: 28/03/2025

I wish to express my sincere gratitude to Dr. K. Murli Chandra, Managing Director, Omics Nextgen Laboratories, for providing the facilities and all the necessary support during the execution of this thesis work.

I am expressing my sincere gratitude to Dr. P. Balaji Suresh for his great support and guidance. I am a research scholar and an individual. It may be said that my success is a result of my hard work and the support of my friends and family.

Chamakuri.Venkata Swathi

Date: 28/03/2025

ACKNOWLEDGEMENTS

It gives me great pleasure to thank Dr. P Madhu Babu, Lab Director, Omics Nextgen Laboratories, Bhimavaram for his valuable guidance, constant support and help throughout the course of work. He has been a persistent source of encouragement and has been guiding me in the right direction throughout the investigation. Working under his supervision gave me a true sense of freedom and inculcated a spirit of positive attitude in me.

We express our sincere gratitude to Sub Lt. Gedela Sam Babu, Head of the department of Biotechnology, Sri Yerramilli Narayana Murthy College, Narasapuram. We convey my highest regards to my parents and friends who helped me through their support towards the successful completion of my project.

I wish to express my sincere gratitude to Dr. K Murali Krishna, Managing Director, Omics Nextgen Laboratories, Bhimavaram for providing the facilities and all the necessary support during the execution of this thesis work.

I am expressing my sincere gratitude to Dr. P Balaji Suresh for his great support and guidance. Each research effort however individual it may be, can be successful only if it is backed by a good team support.

Chamakuri.Venkata Swathi

Date: 28/03/2025



CERTIFICATION

This is to certify that **Ms. Chamakuri Venkata Swathi** (student from the department of Biotechnology, Sri Yerramilli Narayana Murthy College, Narasapuram) successfully completed the assigned bonafide project work titled: **"Diagnosis of Influenza A virus by using real time PCR "** under my supervision and guidance at Department of Molecular biology, Omics Nextgen Laboratories PVT LTD, Old BJP Office Road, Bhimavaram-2 West Godavari District, Andhra Pradesh, for the partial fulfillment of Bachelor's degree in Biotechnology (2022-25).

Place: Bhimavaram

Date: 24/03/2025

Dr. P. Madhu Babu

Project Guide





(Approved By Andhra Pradesh State Council of Higher Education)

CERTIFICATE OF COMPLETION INTERNSHIP PROGRAM

This is to certify that Ms./Mr. chamakuri.venkata Swathi Reg No: 12210013 of Sri V. College(A) for successful completion of Long-term internship program for 260 hrs. Applications of Diagnostic of Influenza A virus by using RT PCR organized by K-SOLUTIONS in collaborate with approved by Andhra Pradesh State Council of Higher Education.

We wish to Continued Success in their future endeavours.

Date : 25/03/2025
Place : Vijayawada



For K- SOLUTIONS,

Aravind Krishna Kurapati