

DIAGNOSIS OF HEPATITIS-C-VIRUS(HCV) 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

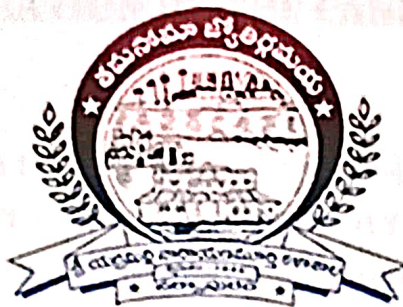
Golla.Sony (Regd.No: 12210018)



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
T. Ramesh
28/5/2025



CERTIFICATE

This is to certify that Kum.Golla.Sony of Sri Yerramilli Narayana Murthy College, Narasapuram) successfully completed the assigned bonafide project work titled: **"DIAGNOSIS OF HEPATITIS-C VIRUS (HCV) 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 HEPATITIS-C-VIRUS (HCV) 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.

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

Golla.Sony

Date: 28/3/2025

I wish to express my sincere gratitude to Dr. A. Murthi Krishna, Managing Director, Omics Nextgen Laboratories, Bhuvanagiri for providing the facilities and all the necessary support during the execution of this project 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.

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.

GOLLA.SONY

Date: 28/3/2025



CERTIFICATION

This is to certify that **Ms. Golla Sony** (student from the department of Biotechnology, Sri Yerramilli Narayana Murthy College, Narasapuram) successfully completed the assigned bonafide project work titled: "**Diagnosis of Hepatitis-C-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

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Project Guide



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(Approved By Andhra Pradesh State Council of Higher Education)

INTRODUCTION

CERTIFICATE OF COMPLETION INTERNSHIP PROGRAM

This is to certify that Ms./ Mr. Golla.Sony Reg No: 12210018 of Sri Y.N.College(A) successful completion of Long-term internship program for 260 hrs. On Applications Diagnosis of Hepatitis-c-virus by using RT PCR organized by K- SOLUTIONS collaborate with approved by Andhra Pradesh State Council of Higher Education.

RESULT AND DISCUSSION

14-17

CONCLUSION AND REFERENCES

14-20

We wish to Continued Success in their future endeavours.

Date: 25/03/2025

Place: Vijayawada



For K- SOLUTIONS,

Aravind Krishna Kurapati