



Project report submitted in partial fulfilment of the requirements for awarding the degree of Bachelor of Science in Biotechnology

Title:

**Polymerase chain reaction-based gene amplification  
using thermal cyclers**

Submitted to:

The Department of Biotechnology  
Sri Yerramilli Narayanamurthy College,  
Narasapuram.

Submitted by:

**Bharath Chandu Chodem** (Regd. No.: 11910028)

**Saikumar Sannila** (Regd. No.: 11910021)

**Sandeep Pedapati** (Regd. No.: 11910032)

**Satyasai Bejawada** (Regd. No.: 11910020)

Under the guidance of: **Dr. Ravikiran S. Yedidi**  
The Center for Advanced-Applied Biological Sciences & Entrepreneurship  
(TCABS-E), Rajamahendravaram.



## CERTIFICATION

This is to certify that **Mr. Bharath Chandu Chodem, Mr. Saikumar Sannila, Mr. Sandeep Pedapati and Mr. Satyasai Bejawada**, (students form the department of Biotechnology, Sri Yerramilli Narayanamurthy College, Narasapuram) successfully completed the assigned bonafide project work titled: **“Polymerase chain reaction-based gene amplification using thermal cycler”** under the supervision and guidance of Dr. Ravikiran S. Yedidi, at The Center for Advanced-Applied Biological Sciences & Entrepreneurship (TCABS-E), Visakhapatnam branch for the partial fulfillment of Bachelor’s degree in Biotechnology (2019-22).

Examiner 1:

HoD, Biotechnology

Sri Yerramilli Narayanamurthy College

Examiner 2:




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**



## CERTIFICATION

This is to certify that **Mr. Bharath Chandu Chodem, Mr. Saikumar Sannila, Mr. Sandeep Pedapati and Mr. Satyasai Bejawada**, (students from the department of Biotechnology, Sri Yerramilli Narayanamurthy College, Narasapuram) successfully completed the assigned bonafide project work titled: **“Polymerase chain reaction-based gene amplification using thermal cycler”** under my supervision and guidance at The Center for Advanced-Applied Biological Sciences & Entrepreneurship (TCABS-E), Visakhapatnam branch for the partial fulfillment of Bachelor’s degree in Biotechnology (2019-22).

**For: The Center for Advanced-Applied Biological Sciences & Entrepreneurship (TCABS-E), R.J.Y.**

  
Dr. Ravikiran S. Yedidi **FOUNDER**

Founder, Principal Scientist & Lead Instructor  
The Center for Advanced-Applied Biological Sciences & Entrepreneurship (TCABS-E)  
Rajamahendravaram (A.P.) India.  
Branch: Visakhapatnam.  
Tel. +91-8660301662.  
Email: [tcabse.india@gmail.com](mailto:tcabse.india@gmail.com)  
Website: <https://www.tcabse.org>

## DECLARATION BY THE CANDIDATE

We hereby solemnly declare that the work in this project entitled "**Polymerase chain reaction-based gene amplification using thermal cycler**" 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 Dr. Ravikiran S. Yedidi at TCABS-E, Visakhapatnam branch. I declare that parts of this work has been worked on and was submitted by my peers to their respective educational institutions in India/abroad.

Mr. Bharath Chandu Chodem  
Mr. Saikumar Sannila  
Mr. Sandeep Pedapati  
Mr. Satyasai Bejawada

ch. Bharath Chandu  
S. Sai Kumar  
P. Sandeep  
B. Satya Sai

Date: ...19.3.22