



കേരളം കേരള KERALA TRAINING WORKSHOP PLANT BIOTECHNOLOGY BY XCELLOGEN BIOTECH PVT LTD

CK 114641

Customer name : Al - Ameen College, Edathala
 Date : 21/02/2022
 Contact person : Dr.Cini Kurian
 Principal
 Al-Ameen College Edathala
 Contract value : 28,350 (Twenty eight thousand three hundred and fifty only)
 Scope of work : Total 5 days of Workshop on Plant Biotechnology
 (Starting date 21/02/2022)

Workshop on Plant Biotechnology for students

The table given below shows the details of topics being covered on each days of training:

DURATION	TOPIC
1 st Day	Introduction
2 nd Day	Extraction techniques
3 rd Day	Phytochemical assay
4 th Day	Thin layer chromatography
5 th Day	Column chromatography
6 th Day	Antioxidant assay
7 th Day	Summery



No 25806 terms and conditions 14.09.2021

Value of Rs 50/-
 Sold To 1. There will be 7 days training programme in the Biotechnology Lab.
 2. The period of training will be from 21st February 2022
 3. The training will be conducted daily four and half hours. The training is conducted in the Biotechnology lab.

JAYAKUMAR G
 Stamp Vendor
 High Court Of Kerala
 Ernakulam

The Principal,
 Al- Ameen College
 Edathala



भारतीय गैर न्यायिक

पचास
रुपये
रु.50



FIFTY
RUPEES
Rs.50

INDIA NON JUDICIAL

കേരളം കേരल KERALA

CK 114642

- Any change of training dates will have to be informed 3 days in advance by both parties. Alternate dates will have to be planned based on mutual convenience.
- The attendance for the respective training session will be monitored by the concerned trainer in the attendance sheet provided from the institute. The attendance sheet for each day / session should be submitted to the teacher in charge at the end of each session.
- The name and qualification of the trainers shall be giving to the college before the training session and approved. Only approved trainers will be allowed to conduct the training.
- The company shall collect feedback from students during regular intervals. The feedback will be analyzed by the company and shared with College if requested. Company shall make appropriate course corrections as applicable.

Payment terms : payment shall be accepted as cash or online transfer in favour of Xcellogen Biotech Pvt Ltd.
Payment date 1 : Registration fee Rs. 14,000
Payment date 2 : Last payment Rs. 14,350
Address details : Xcellogen Biotech Pvt Ltd
TC NO82/1649 1st Floor,
Opposite Federal Bank Pattoor,
Thiruvananthapuram, Kerala 695035

BOTH PARTIES AGREED AND SIGNED ON

1st party

Mr. Anooj E. S
Managing Director
Xcellogen Biotech Pvt Ltd

2nd party

Dr. Cini Kurian
Principal
Al - Ameen College, Edathala



Dr. Cini Kurian
Principal
Al - Ameen College, Edathala

Value of Rs. 50/-
Sold To Name:
Address:

Witness 2
Name:
Address:

JAYAKUMAR G
Stamp Vendor
High Court of Kerala
Ernakulam

The Principal,
AL - Ameen College
EDATHALA.



**ENDOPHYTIC BACTERIA/FUNGI ISOLATION FROM MEDICINAL PLANT.
IDENTIFICATION BY MOLECULAR METHODS AND EVALUATING ITS
SECONDARY METABOLITE POTENTIAL.**

A THESIS

Submitted by

NAZLA NAZAR

(Reg. No: 190021025448)

In partial fulfilment for the award of the Degree of

BACHELOR OF SCIENCE

in

BIOTECHNOLOGY



**AL-AMEEN COLLEGE, ALUVA
MAHATHMA GANDHI UNIVERSITY, KERALA**

Under the guidance of

Mrs. ALEENA BENNY

(ACADEMIC COORDINATOR)

PVT MERIT BIOLABS, PALARIVATTOM, KOCHI

FEBRUARY 2022

**CELLULASE PRODUCTION FROM MICROBES. CHARACTERIZATION BY PAGE AND
ISOLATION OF CELLULOSE FROM BANANA WASTE (STEM & PEEL)**

A THESIS

Submitted by

SHIFNA

(Reg. No: 190021025457)

In partial fulfilment for the award of the Degree of

BACHELOR OF SCIENCE

in

BIOTECHNOLOGY



**AL-AMEEN COLLEGE, ALUVA
MAHATHMA GANDHI UNIVERSITY, KERALA**

Under the guidance of

Mrs. ALEENA BENNY

(ACADEMIC COORDINATOR)

PVT MERIT BIOLABS, PALARIVATTOM

- KOCHI

FEBRUARY 2022

**CAFFEINE ATTENUATES NUMB EXPRESSION AND INDUCES
APOPTOSIS IN HUMAN BREAST CANCER CELLS**

A THESIS

Submitted by

JIBU S JOHN

(Reg. No: 190021025444)

In partial fulfilment for the award of the Degree of

BACHELOR OF SCIENCE

in

BIOTECHNOLOGY



AL-AMEEN COLLEGE, ALUVA

MAHATHMA GANDHI UNIVERSITY, KERALA

Under the guidance of

Dr. RAJESH RAMACHANDRAN

(Director and Research Head)

Center for research on molecular and applied science.

FEBRUARY 2022

ISOLATION, QUANTIFICATION & MOLECULAR IDENTIFICATION OF
PECTINASE ENZYME PRODUCING BACTERIA FROM FRUITS

A THESIS

Submitted by

FATHIMA K.U.

(Reg. No: 190021025438)

In partial fulfilment for the award of the Degree of

BACHELOR OF SCIENCE

in

BIOTECHNOLOGY



AL-AMEEN COLLEGE, ALUVA
MAHATHMA GANDHI UNIVERSITY, KERALA

Under the guidance of

Dr. K S RISHAD

(SUPERVISING GUIDE)

KLONOS LIFE SCIENCE, KALAMASERRY

FEBRUARY 2022

A THESIS

Submitted by

SHANIBA T S

(REG NO. 190021025456)

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BACHELOR OF SCIENCE

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AL AMEEN COLLEGE EDTHALA, ALUVA

MAHATMA GANDHI UNIVERSITY, KERALA



Under the guidance of

Mrs. Aleena Benny

(Academic coordinator)

PVT MERIT BIOLABS, PALARIVATTOM, KOCHI

FEBRUARY 2022

**MICROBIOLOGICAL AND NUTRITIONAL EVALUATION OF
DESICCATED COCONUT POWDER**

Dissertation by

Ms. Husna Ismail
(Reg No: 190021025443)



AL- AMEEN COLLEGE, EDATHALA

Submitted to
MAHATHMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment for the award of degree

**BACHELOR OF SCIENCE
IN
BIOTECHNOLOGY**

Work done at



CCB, Institute of technology (CIT), Coconut Development Board

Aluva

**MICROBIOLOGICAL AND NUTRITIONAL EVALUATION OF
COCONUT MILK
A THESIS**

Submitted by

PARVATHY PRASAD

(Reg. No: 190021025450)

In partial fulfilment for the award of the Degree of

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in

BIOTECHNOLOGY



**AL-AMEEN COLLEGE, ALUVA
MAHATHMA GANDHI UNIVERSITY, KERALA**

Under the guidance of

Ms. Sumi S Nair

(Microbiologist, Quality testing laboratory)

Coconut Development Board, Vazhukulam.

FEBRUARY 2022

**CELLULASE PRODUCTION FROM MICROBES. CHARACTERIZATION BY PAGE AND
ISOLATION OF CELLULOSE FROM BANANA WASTE (STEM & PEEL)**

A THESIS

Submitted by

Tania Aruja

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In partial fulfilment for the award of the Degree of

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BIOTECHNOLOGY



**AL-AMEEN COLLEGE, ALUVA
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Under the guidance of

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(ACADEMIC COORDINATOR)

PVT MERIT BIOLABS, PALARIVATTOM KOCHI

FEBRUARY 2022

**STABILITY IMPROVEMENT OF COCONUT OIL THROUGH
RESPONSE SURFACE METHODOLOGY WITH NATURAL
INGREDIENTS FOR TOPICAL APPLICATIONS**

A DISSERTATION SUBMITTED TO MAHATMA GANDHI UNIVERSITY IN
PARTIAL FULFILMENT FOR THE AWARD OF
BACHELOR OF SCIENCE IN BIOTECHNOLOGY

A THESIS SUBMITTED BY

RIHANA C R (190021025452)



**DEPARTMENT OF BIOTECHNOLOGY
AL-AMEEN COLLEGE, EDATHALA
ALUVA, KERALA, 683562**

Under the guidance of

**ALPHY NISA STEAPHEN
DEPARTMENT OF BIOTECHNOLOGY
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ALUVA**

**CELLULASE PRODUCTION FROM MICROBES. CHARACTERIZATION BY PAGE AND
ISOLATION OF CELLULOSE FROM BANANA WASTE (STEM & PEEL)**

A THESIS

Submitted by

FATHIMA ZAMEER

(Reg. No: 190021025440)

In partial fulfilment for the award of the Degree of

BACHELOR OF SCIENCE

in

BIOTECHNOLOGY



**AL-AMEEN COLLEGE, ALUVA
MAHATHMA GANDHI UNIVERSITY, KERALA**

Under the guidance of

Mrs. ALEENA BENNY

(ACADEMIC COORDINATOR)

PVT MERIT BIOLABS, PALARIVATTOM KOCHI

FEBRUARY 2022

**ISOLATION, QUANTIFICATION & MOLECULAR IDENTIFICATION
OF PECTINASE PRODUCING BACTERIA FROM FRUITS**

A THESIS

Submitted by

ATHUL RAJ CT

(Reg. No: 190021025434)

In partial fulfillment for the award of the Degree of

BACHELOR OF SCIENCE

in

BIOTECHNOLOGY



**AL-AMEEN COLLEGE, ALUVA
MAHATMA GANDHI UNIVERSITY, KERALA**

Under the guidance of

Dr. K S RISHAD

(SUPERVISING GUIDE)

KLONOS LIFE SCIENCE, KALAMASERRY

FEBRUARY 2022

**ISOLATION, QUANTIFICATION & MOLECULAR IDENTIFICATION
OF ALKALINE PROTEASE ENZYME PRODUCING BACTERIA
FROM SOIL**

A THESIS

Submitted by

ALTHAF MUJEEB

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In partial fulfilment for the award of the Degree of

BACHELOR OF SCIENCE

in

BIOTECHNOLOGY



**AL-AMEEN COLLEGE, ALUVA
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Under the guidance of

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(SUPERVISING GUIDE)

KLONOS LIFE SCIENCE, KALAMASERRY

FEBRUARY 2022

**MICROBIOLOGICAL AND NUTRITIONAL EVALUATION OF
DESICCATED COCONUT POWDER**

Dissertation by

Ms. RIZWANA S M
(Reg No: 190021025453)



AL- AMEEN COLLEGE, EDATHALA

Submitted to
MAHATHMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment for the award of degree

**BACHELOR OF SCIENCE
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Work done at



CCB, Institute of technology (CIT), Coconut Development Board

Aluva

**ANTIMICROBIAL EFFECTS OF ESSENTIAL OILS FROM CITRUS PEELS AGAINST
FOOD BORNE PATHOGENS**

A THESIS

Submitted by

ARSHITHA K A

(Reg. No: 190021025433)

In partial fulfilment for the award of the Degree of

BACHELOR OF SCIENCE

in

BIOTECHNOLOGY



**AL-AMEEN COLLEGE, ALUVA
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PVT MERIT BIOLABS, PALARIVATTOM

- KOCHI

FEBRUARY 2022

**ISOLATION, QUANTIFICATION & MOLECULAR
IDENTIFICATION OF ALKALINE PROTEASE ENZYME
PRODUCING BACTERIA FROM SOIL**

A THESIS

Submitted by

ALIFNA P.S

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Under the guidance of

Dr. K S RISHAD

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FEBRUARY 2022

**EXTRACTION AND CHARACTERIZATION OF COLLAGEN FROM MEAT
INDUSTRY BY PRODUCTS/ FISH SCALE AND CHARACTERIZATION BY PAGE
AND PREPARATION OF SKIN OINTMENT**

A THESIS

Submitted by

NOUFIYA FATHIMA S K

(REG NO. 190021025449)

In partial fulfilment for the award of the degree of

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BIOTECHNOLOGY



**AL AMEEN COLLEGE EDTHALA, ALUVA
MAHATMA GANDHI UNIVERSITY, KERALA**

Under the guidance of

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(Academic coordinator)

PVT MERIT BIOLABS, PALARIVATTOM, KOCHI

FEBRUARY 2022

**STABILITY IMPROVEMENT OF COCONUT OIL
THROUGH RESPONSE SURFACE METHODOLOGY WITH
NATURAL INGREDIENTS FOR TOPICAL APPLICATIONS**

A DISSERTATION SUBMITTED TO MAHATMA GANDHI UNIVERSITY IN
PARTIAL FULFILMENT FOR THE AWARD OF
BACHELOR OF SCIENCE IN BIOTECHNOLOGY

A THESIS SUBMITTED BY

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AL-AMEEN COLLEGE, EDATHALA
ALUVA, KERALA, 683562**

Under the guidance of

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DEPARTMENT OF BIOTECHNOLOGY
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ALUVA**

**ANTIMICROBIAL EFFECTS OF ESSENTIAL OILS FROM CITRUS PEELS AGAINST
FOOD BORNE PATHOGENS**

A THESIS

Submitted by

FATHIMA NAZAR

(Reg. No: 190021025439)

In partial fulfilment for the award of the Degree of

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BIOTECHNOLOGY



**AL-AMEEN COLLEGE, ALUVA
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A THESIS SUBMITTED BY

ANZA MARIAM(190021025432)



**DEPARTMENT OF BIOTECHNOLOGY
AL-AMEEN COLLEGE, EDATHALA
ALUVA, KERALA, 683562**

Under the guidance of

**ALPHY NISA STEAPHEN
DEPARTMENT OF BIOTECHNOLOGY
AL-AMEEN COLLEGE
ALUVA**

**ISOLATION, QUANTIFICATION & MOLECULAR IDENTIFICATION
OF PECTINASE ENZYME PRODUCING BACTERIA FROM FRUITS**

A THESIS

Submitted by

HASEEBA P.S.

(Reg. No: 190021025442)

In partial fulfilment for the award of the Degree of

BACHELOR OF SCIENCE

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BIOTECHNOLOGY



**AL-AMEEN COLLEGE, ALUVA
MAHATHMA GANDHI UNIVERSITY, KERALA**

Under the guidance of

Dr. K S RISHAD

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KLONOS LIFE SCIENCE, KALAMASERRY

FEBRUARY 2022

**ANALYSIS OF CERTAIN NATURAL INGREDIENTS ON THE
STABILITY AND SKIN-BENEFICIAL PROPERTIES OF
COCONUT OIL USING THE PLACKETT-BURMAN DESIGN**

A DISSERTATION SUBMITTED TO MAHATMA GANDHI UNIVERSITY IN PARTIAL
FULFILMENT FOR THE AWARD OF

BACHELOR OF SCIENCE IN BIOTECHNOLOGY

A THESIS SUBMITTED BY

**ANAGHA A T
(190021025430)**



**DEPARTMENT OF BIOTECHNOLOGY
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ALUVA, KERALA, 683562**

Under the guidance of

**ALPHY NISA STEAPHEN
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**Endophytic bacteria/fungi isolation from medicinal plant. Identification by
Molecular methods and evaluating its secondary metabolite potential.**

A thesis

Submitted by

JINU ANN

(Reg no. 190021025445)

In partial fulfilment for the award of the degree of

BACHELOR OF SCIENCE

In

BIOTECHNOLOGY



AL-AMEEN COLLEGE, ALUVA

MAHATMA GANDHI UNIVERSITY, KERALA

Under the guidance of

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(ACADEMIC COORDINATOR)

PVT MERIT BIOLABS , PALARIVATTOM

KOCHI

FEBRUARY 2022

**ENDOPHYTIC BACTERIA/ FUNGI ISOLATION FROM MEDICINAL
PLANT. IDENTIFICATION BY MOLECULAR METHODS AND
EVALUATING ITS SECONDARY METABOLITE POTENTIAL**

A THESIS

Submitted by

TIYA RODRIGUES

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In partial fulfilment for the award of the Degree of

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AL-AMEEN COLLEGE, ALUVA

MAHATHMA GANDHI UNIVERSITY, KERALA

Under the guidance of

Mrs. ALEENA BENNY

(ACADEMIC COORDINATOR)

PVT MERIT BIOLABS, PALARIVATTOM

- KOCHI

FEBRUARY 2022

**CAFFEINE ATTENUATES NUMB EXPRESSION AND INDUCES
APOPTOSIS IN HUMAN BREAST CANCER CELLS**

A THESIS

Submitted by

AMRUTHA M PAI

(Reg. No: 190021025429)

In partial fulfilment for the award of the Degree of

BACHELOR OF SCIENCE

in

BIOTECHNOLOGY



AL-AMEEN COLLEGE, ALUVA

MAHATHMA GANDHI UNIVERSITY, KERALA

Under the guidance of

Dr. RAJESH RAMACHANDRAN

(Director and Research Head)

Center for research on molecular and applied science.

FEBRUARY 2022

ANTIBACTERIAL ACTIVITY OF HONEY AGAINST WOUND PATHOGEN

A THESIS

Submitted by

MOHAMMED SUDHEER C U

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in

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AL-AMEEN COLLEGE, ALUVA

MAHATMA GANDHI UNIVERSITY, KERALA

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FEBRUARY 2022

ANTIBACTERIAL ACTIVITY OF HONEY AGAINST WOUND PATHOGEN

A THESIS

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AYSHA NOWSHAD

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In partial fulfilment for the award of the Degree of

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**AL-AMEEN COLLEGE, ALUVA
MAHATHMA GANDHI UNIVERSITY, KERALA**

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PVT MERIT BIOLABS, PALARIVATTOM

- KOCHI

FEBRUARY 2022

**ANALYSIS OF CERTAIN NATURAL INGREDIENTS ON THE
STABILITY AND SKIN-BENEFICIAL PROPERTIES OF
COCONUT OIL USING THE PLACKETT-BURMAN DESIGN**

A DISSERTATION SUBMITTED TO MAHATMA GANDHI UNIVERSITY IN PARTIAL
FULFILMENT FOR THE AWARD OF

BACHELOR OF SCIENCE IN BIOTECHNOLOGY

A THESIS SUBMITTED BY

**ANAGHA A T (190021025430)
EMY EDWARD (190021025436)
GIRISH KUMAR M M (190021025441)**



**DEPARTMENT OF BIOTECHNOLOGY
AL-AMEEN COLLEGE, EDATHALA
ALUVA, KERALA, 683562**

Under the guidance of

**ALPHY NISA STEAPHEN
DEPARTMENT OF BIOTECHNOLOGY
AL-AMEEN COLLEGE
ALUVA**

**EXTRACTION AND CHARACTERIZATION OF COLLAGEN FROM MEAT
INDUSTRY BYPRODUCT/ FISHSCALE AND CHARACTERIZATION BY PAGE AND
PREPARATION OF SKIN OINTMENT**

A THESIS

Submitted by

SURYAPARVATHY V S
(REG NO. 190021025459)

In partial fulfilment for the award of the degree of

BACHELOR OF SCIENCE

in

BIOTECHNOLOGY



AL AMEEN COLLEGE EDTHALA, ALUVA
MAHATMA GANDHI UNIVERSITY, KERALA

Under the guidance of

Mrs. Aleena Benny
(Academic coordinator)

PVT MERIT BIOLABS, PALARIVATTOM, KOCHI

FEBRUARY 2022

**MICROBIOLOGICAL AND NUTRITIONAL EVALUATION OF
COCONUT MILK**

Dissertation by

Ms. ANAKHA T S

(Reg No: 190021025431)



AL- AMEEN COLLEGE, EDATHALA

Submitted to

MAHATHMA GANDHI UNIVERSITY, KOTTAYAM

In partial fulfillment for the award of degree

**BACHELOR OF SCIENCE
IN
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Work done at



CCB, Institute of technology (CIT), Coconut Development Board

Aluva

**ANTIMICROBIAL EFFECTS OF ESSENTIAL OILS FROM CITRUS
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A THESIS

Submitted by

SAFWANA K S

(Reg. No: 190021025254)

In partial fulfilment for the award of the Degree of

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**AL-AMEEN COLLEGE, ALUVA
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PVT MERIT BIOLABS, PALARIVATTOM

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A THESIS SUBMITTED BY

ANZA MARIAM (190021025432)
SRUTHI SEBASTIAN (190021025458)
FARSEENA (190021025437)
RIHANA C R (190021025452)
SAYIMA SHUKOOR (190021025455)



**DEPARTMENT OF BIOTECHNOLOGY
AL-AMEEN COLLEGE, EDATHALA
ALUVA, KERALA, 683562**

Under the guidance of

**ALPHY NISA STEAPHEN
DEPARTMENT OF BIOTECHNOLOGY
AL-AMEEN COLLEGE
ALUVA**

**ISOLATION, QUANTIFICATION & MOLECULAR
IDENTIFICATION OF ALKALINE PROTEASE ENZYME-
PRODUCING BACTERIA FROM SOIL**

A THESIS

Submitted by

GOPIKA PB

(Reg. No: 170041042855)

In partial fulfilment for the award of the Degree of

BACHELOR OF SCIENCE

in

BIOTECHNOLOGY



**AL-AMEEN COLLEGE, ALUVA
MAHATHMA GANDHI UNIVERSITY, KERALA**

Under the guidance of

Dr. K S RISHAD

(SUPERVISING GUIDE)

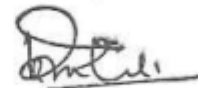
KLONOS LIFE SCIENCE, KALAMASERRY

FEBRUARY 2022

26/02/2022

CERTIFICATE

This is to certify that the dissertation entitled **“Isolation, quantification and molecular identification of alkaline protease enzyme producing bacteria from soil”** is a bonafide record of the original research work done by **Mr. Althaf Mujeeb, Al-Ameen College, Edathala** partial fulfillment of the requirement for the award of **‘Degree of Bachelor of Science in Biotechnology’** during the period of his study in the Department of Biotechnology, under my direct supervision & guidance.



Dr. K.S Rishad

(Supervising Guide)



CENTER FOR RESEARCH ON MOLECULAR AND APPLIED SCIENCES

CRMAS/Cert./2022/01/144

12th JANUARY, 2022

CERTIFICATE

This is to certify that the work entitled “**CAFFEINE ATTENUATES NUMB EXPRESSION AND INDUCES APOPTOSIS IN HUMAN BREAST CANCER CELLS**” is a bonafide project work done by **JIBU. S. JOHN** student of AL – AMEEN COLLEGE, EDATHALA (Affiliated to MAHATMA GANDHI UNIVERSITY), in partial fulfilment of Bachelor’s Degree in BIOTECHNOLOGY.

Under the guidance and supervision



Dr. RAJESH RAMACHANDRAN
DIRECTOR & RESEARCH HEAD

CENTER FOR RESEARCH ON MOLECULAR AND APPLIED SCIENCES PVT LTD
(Formerly Biogenix Research Center)

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