

Date: 8/10/2023

This is to certify that **ABDUL MAJID.V** Student from Department of Biochemistry, E.M.E.A College of Arts and Science has done 30 days training in various clinical laboratory techniques and lab management from 7 September 2023 to 7 October 2023

We wish him all the best for him upcoming career

Aqlim Sudarma
 medical services
VERIFIED

Ali Akbar C.k
 MSC Biochemistry
 CEO of Aqlim

Fully automated Hormone & Immunology Analyzer (Mini Vidas)

Semi Automated Chemistry Analyzer
Micro Lab 300 Merck (Germany)

Hematology Analyzer
Horiba (Japan)

Semi Automated Analyzer
Micro lab 300-Merck(Germany)

Fully Automated Chemistry Analyzer
Selectra - Merck (Germany)

HbA1c
Mispa I₃ (Cartridge based specific protein Analyzer) D-Dimer Covid special test etc...

Electrolytes Analyzer
(Sodium & Potassium) Easylyte -
Medica(USA)

ECG Bionet
Korea 12 Chanel



Date: 8/10/2023

This is to certify that **MOHAMMED AMEEN.CK** Student from Department of Biochemistry, E.M.E.A College of Arts and Science has done 30 days training in various clinical laboratory techniques and lab management from 7 September 2023 to 7 October 2023

We wish him all the best for him upcoming career

Aqlim Sudarma
 medical services

VERIFIED

Ali Akbar C.k

MSC Biochemistry
 CEO of Aqlim

Fully automated Hormone & Immunology Analyzer (Mini Vidas)

Semi Automated Chemistry Analyzer
 Micro Lab 300 Merck (Germany)

Hematology Analyzer
 Horiba (Japan)

Semi Automated Analyzer
 Micro lab 300-Merck(Germany)

Fully Automated Chemistry Analyzer
 Selectra - Merck (Germany)

HbA1c
 Mispal I, (Cartridge based specific protein Analyzer) D-Dimer Covid special test etc...

Electrolytes Analyzer
 (Sodium & Potassium) Easylyte - Medica(USA)

ECG Bionet
 Korea 12 Chanel



SUDHARMA
DIAGNOSTIC SERVICE
 QUALITY | ACCURACY | NETWORKED | BARCODED

📍 Near Ajmal Hospital, MONGAM
 ☎ 9544 5000 35 | 9544 5000 31
 📧 sudharmamgm@aqlim.com
 🌐 www.aqlim.com

Date: 8/10/2023

This is to certify that **SHANA YASMIN.K** Student from Department of Biochemistry, E.M.E.A College of Arts and Science has done 30 days training in various clinical laboratory techniques and lab management from 7 September 2023 to 7 October 2023

We wish his all the best for his upcoming career

Aqlim Sudarma
 medical services

VERIFIED

Ali Akbar C.K
 MSC Biochemistry
 CEO of Aqlim

Fully automated Hormone & Immunology Analyzer (Mini Vidas)

Semi Automated Chemistry Analyzer
 Micro Lab 300 Merck (Germany)

Hematology Analyzer
 Horiba (Japan)

Semi Automated Analyzer
 Micro lab 300-Merck(Germany)

Fully Automated Chemistry Analyzer
 Selectra - Merck (Germany)

HbA1c
 Mipsa 1, (Cartridge based specific protein Analyzer) D-Dimer Covid special test etc...

Electrolytes Analyzer
 (Sodium & Potassium) Easylyte - Medica(USA)

ECG Bionet
 Korea 12 Chanel

Date: 18/10/2023

This is to certify that **HILFA** Student from Department of Biochemistry, E.M.E.A College of Arts and Science has done 30 days training in various clinical laboratory techniques and lab management from 7 September 2023 to 7 October 2023

We wish his all the best for his upcoming career

Aqlim Sudarma
 medical services
VERIFIED

Ali Akbar C.k
 MSC Biochemistry
 CEO of Aqlim



Fully automated Hormone & Immunology Analyzer (Mini Vidas)

Semi Automated Chemistry Analyzer
Micro Lab 300 Merck (Germany)

Hematology Analyzer
Horiba (Japan)

Semi Automated Analyzer
Micro lab 300-Merck(Germany)

Fully Automated Chemistry Analyzer
Selectra - Merck (Germany)

HbA1c
Mispa I₁ (Cartridge based specific protein Analyzer) D-Dimer Covid special test etc...

Electrolytes Analyzer
(Sodium & Potassium) Easylyte - Medica(USA)

ECG Bionet
Korea 12 Chanel

Date: 18/10/2023

This is to certify that **NIDHA HAIFA. AC** Student from Department of Biochemistry, E.M.E.A College of Arts and Science has done 30 days training in various clinical laboratory techniques and lab management from 7 September 2023 to 7 October 2023

We wish his all the best for his upcoming career


VERIFIED

Ali Akbar C.k
MSC Biochemistry
CEO of Aqlim



Fully automated Hormone & Immunology Analyzer (Mini Vidas)

Semi Automated Chemistry Analyzer
Micro Lab 300 Merck (Germany)

Hematology Analyzer
Horiba (Japan)

Semi Automated Analyzer
Micro lab 300-Merck(Germany)

Fully Automated Chemistry Analyzer
Selectra - Merck (Germany)

HbA1c
Mispa I₁ (Cartridge based specific protein Analyzer) D-Dimer Covid special test etc...

Electrolytes Analyzer
(Sodium & Potassium) Easylyte - Medica(USA)

ECG Bionet
Korea 12 Chanel

**“APPLICATION OF POMEGRANATE PEEL EXTRACT,
A WASTE AGRICULTURAL PRODUCT, AS A NATURAL
PRESERVATIVE IN TAHINI”**

A dissertation submitted to Calicut University in partial fulfillment of the requirement
for award for the degree of :

BACHELOR OF SCIENCE IN BIOCHEMISTRY

Submitted by:

SAFVANA MOL. KP
RINSINA. N K
AYISHA SHAKIRA. V
NASREEN. A
SHAHANA FAIROOZ. PE
NAYANA. MK
HIBA SHERKHAN. K



**DEPARTMENT OF BIOCHEMISTRY
EMEA COLLEGE OF ARTS & SCIENCE
KONDOTTY, MALAPPURAM
2021-24**

**THE IMPACT OF AGE AND GENDER ON THE
SERUM LIPID PROFILE AT SELECTED LOCALITY**

A project submitted to Calicut university in partial fulfillment of the
requirements for the award of degree of

BACHELOR OF SCIENCE IN BIOCHEMISTRY

Submitted by

SHANA YASMIN K

NIDHA HAIFA AC

MOHAMMED AMEEN CK

ABDUL MAJID V

HILFA



**DEPARTMENT OF BIOCHEMISTRY
EMEA COLLEGE OF ARTS AND SCIENCE
KONDOTTY, MALAPPURAM
MARCH 2024**

**ISOLATION OF PHOSPHATE SOLUBILISING
MICROORGANISM NATURALLY COLONISING
THE RIZE RHIZOSPHERE SOIL**

A project submitted to Calicut university in partial fulfillment of the
requirements for the award of degree of

BACHELOR OF SCIENCE IN BIOCHEMISTRY

Submitted by

NAFIYA BENZY NC

NABEELA SHERIN P

FATHIMA AMRIN

FATHIMA SHABNA KP

AYSHA NANA PVC



**DEPARTMENT OF BIOCHEMISTRY
EMEA COLLEGE OF ARTS AND SCIENCE
KONDOTTY, MALAPPURAM
MARCH 2024**

**“THE EFFECT OF *Allium sativum* AS PREBIOTIC
SUBSTANCE ON THE ACTIVITY OF PROBIOTIC
BACTERIA *Lactobacillus* SPS AGAINST FOOD BORNE
PATHOGENS”**

A dissertation submitted to Calicut University in partial fulfillment of the requirement
for award for the degree of :

BACHELOR OF SCIENCE IN BIOCHEMISTRY

Submitted by:

MUHAMMED DANISH
FATHIMA HANAN
RAISHA RIYAS. P
RUSHDA.A
MUHAMMED NIHAL.A
HASHIM BADUSHA



**DEPARTMENT OF BIOCHEMISTRY EMEA COLLEGE
OF ARTS & SCIENCE KONDOTTY, MALAPPURAM
2021-24**

ISOLATION OF EXTENDED SPECTRUM BETA-LACTAMASE PRODUCING *Escherichia coli* FROM HOSPITAL SEWAGE WATER SAMPLE AND THE ANTIMICROBIAL EFFECTS OF SILVER NANO PARTICLES

A project submitted to Calicut university in partial fulfilment of the requirements for the award of degree of

BACHELOR OF SCIENCE IN BIOCHEMISTRY

Submitted by

JENNA RASHEED

MOHAMMED SHARAFAS

DIYA SALEEM T K

MUHAMMED UMMAR K



**DEPARTMENT OF BIOCHEMISTRY
EMEA COLLEGE OF ARTS AND SCIENCE
KONDOTTY, MALAPPURAM
MARCH 2024**

ISOLATION OF BACTERIOPHAGE FROM SEWAGE WATER AGAINST ANTIMICROBIAL RESISTANCE BACTERIA

A project submitted to Calicut university in partial fulfilment of the requirements for the
award of degree of

BACHELOR OF SCIENCE IN BIOCHEMISTRY

Submitted by

**MOHAMMED SANOOB
FATHIMA SHERIN
FATHIMA HAFLA
FATHIMA HIBA
HASNA K
MUHSINA K**



**DEPARTMENT OF BIOCHEMISTRY
EMEA COLLEGE OF ARTS AND SCIENCE
KONDOTTY, MALAPPURAM
MARCH 2024**



Ref NO.MB/AUG/MB/24/800

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "**ISOLATION OF BACTERIOPHAGE FROM SEWAGE WATER AGAINST ANTIBIOTIC-RESISTANT BACTERIA**", is an authentic record of the project carried out by Ms. Hasna K of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.



Hasna
Project Co-Ordinator





Ref NO.MB/AUG/MB/24/803

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "**ISOLATION OF BACTERIOPHAGE FROM SEWAGE WATER AGAINST ANTIBIOTIC-RESISTANT BACTERIA**", is an authentic record of the project carried out by Mr. Mohammed Sanoob of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.




Project Co-Ordinator



Ref NO.MB/AUG/MB/24/802

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "**ISOLATION OF BACTERIOPHAGE FROM SEWAGE WATER AGAINST ANTIBIOTIC-RESISTANT BACTERIA**" is an authentic record of the project carried out by Ms. Fathima Hafila T of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.



Ilave

Project Co-Ordinator





Ref NO.MB/AUG/MB/24/801

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "**ISOLATION OF BACTERIOPHAGE FROM SEWAGE WATER AGAINST ANTIBIOTIC-RESISTANT BACTERIA**", is an authentic record of the project carried out by Ms. Fathima Hiba of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.



J. K. Uga
Project Co-ordinator





Ref NO.MB/AUG/MB/24/799

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "**ISOLATION OF BACTERIOPHAGE FROM SEWAGE WATER AGAINST ANTIBIOTIC-RESISTANT BACTERIA**", is an authentic record of the project carried out by Ms. Muhsina K of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.



[Signature]
Project Co-Ordinator






Ref NO.MB/AUG/MB/24/798

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "**ISOLATION OF BACTERIOPHAGE FROM SEWAGE WATER AGAINST ANTIBIOTIC-RESISTANT BACTERIA**", is an authentic record of the project carried out by Ms. Fathima Sherin PK of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.




Project Co-ordinator



Ref NO.MB/AUG/MB/24/813

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "**ISOLATION OF EXTENDED SPECTRUM BETA-LACTAMASE PRODUCING *Escherichia coli* FROM HOSPITAL SEWAGE WATER SAMPLE AND THE ANTIMICROBIAL EFFECTS OF SILVER NANO PARTICLES**", is an authentic record of the project carried out by Mr. Muhammed Ummer K of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.



Ilave
Project Co-ordinator



Ref NO.MB/AUG/MB/24/810

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "**ISOLATION OF EXTENDED SPECTRUM BETA-LACTAMASE PRODUCING *Escherichia coli* FROM HOSPITAL SEWAGE WATER SAMPLE AND THE ANTIMICROBIAL EFFECTS OF SILVER NANO PARTICLES.**", is an authentic record of the project carried out by Ms. Jenna Rasheed of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.



Jenna
Project Co-Ordinator

CERTIFICATE

This is to certify that, this dissertation entitled "***Antibacterial and Invitro cytotoxic study of ethanolic extract of Mentha arvensis leaves***", is an authentic record of the project carried out by Mr. Muhammed Nihal C of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.




Project Co-ordinator



Meticulous approach to science...

An ISO 9001 : 2015 Organization



No: 512



NABL ACCREDITED FOOD & WATER TESTING LABORATORY

Ref NO.MB/AUG/MB/24/808

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "**Antibacterial and Invitro cytotoxic study of ethanolic extract of Mentha arvensis leaves**", is an authentic record of the project carried out by Mr. Ajmal Shine P K of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.



Project Co-ordinator



An ISO 9001 : 2015 Organization



No: 513



NABL ACCREDITED FOOD & WATER TESTING LABORATORY

Ref NO.MB/AUG/MB/24/807

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "**Antibacterial and invitro cytotoxic study of ethanolic extract of Mentha arvensis leaves**", is an authentic record of the project carried out by Mr. Mohammed Shameem V of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.




Project Co-Ordinator



An ISO 9001 : 2015 Organization



No: 516



NABL ACCREDITED FOOD & WATER TESTING LABORATORY

Ref NO.MB/AUG/MB/24/804

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "*Antibacterial and Invitro cytotoxic study of ethanolic extract of Mentha arvensis leaves*", is an authentic record of the project carried out by Ms. Sahla CT of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.



Sahla
Project Co-Ordinator





Meticulous approach to science...

An ISO 9001 : 2015 Organization



No: 543



NABL ACCREDITED FOOD & WATER TESTING LABORATORY

Ref NO.MB/AUG/MB/24/809

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "**Antibacterial and invitro cytotoxic study of ethanolic extract of Mentha arvensis leaves**", is an authentic record of the project carried out by Ms. Fathima Shafsin P of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.



Project Co-ordinator



Ref NO.MB/AUG/MB/24/806

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "**Antibacterial and invitro cytotoxic study of ethanolic extract of Mentha arvensis leaves**", is an authentic record of the project carried out by Ms. Neha Parveen K P of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.



Neha

Project Co-Ordinator





Ref NO.MB/AUG/MB/24/811

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "**ISOLATION OF EXTENDED SPECTRUM BETA-LACTAMASE PRODUCING *Escherichia coli* FROM HOSPITAL SEWAGE WATER SAMPLE AND THE ANTIMICROBIAL EFFECTS OF SILVER NANO PARTICLES**", is an authentic record of the project carried out by Mr. Mohammed Sharafas of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.




Project Co-Ordinator



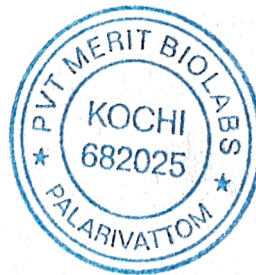


Ref NO.MB/AUG/MB/24/793

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "***The effect of Allium sativum as a prebiotic substance on the activity of probiotic bacteria Lactobacillus sps against food borne pathogens***", is an authentic record of the project carried out by Ms. Raisha Riyas. P of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.




Project Co-Ordinator





Ref NO.MB/AUG/MB/24/812

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "**ISOLATION OF EXTENDED SPECTRUM BETA-LACTAMASE PRODUCING *Escherichia coli* FROM HOSPITAL SEWAGE WATER SAMPLE AND THE ANTIMICROBIAL EFFECTS OF SILVER NANO PARTICLES**", is an authentic record of the project carried out by Ms. Diya Saleem TK of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.



Diya
Project Co-ordinator



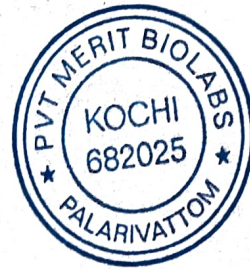


Ref NO.MB/AUG/MB/24/780

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "**APPLICATION OF POMEGRANATE PEEL EXTRACT, AN AGRICULTURAL WASTE PRODUCT AS A NATURAL PRESERVATIVE IN TAHINI**" is an authentic record of the project carried out by Ms. Safvanamol KP of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.



J. Jayaraj
Project Co-ordinator





Ref NO.MB/AUG/MB/24/781

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "**APPLICATION OF POMEGRANATE PEEL EXTRACT, AN AGRICULTURAL WASTE PRODUCT, AS A NATURAL PRESERVATIVE IN TAHINI**" is an authentic record of the project carried out by Ms. Rinsina NK of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.




Project Co-Ordinator



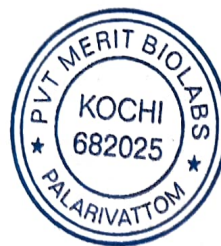


Ref NO.MB/AUG/MB/24/782

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "**APPLICATION OF POMEGRANATE PEEL EXTRACT, AN AGRICULTURAL WASTE PRODUCT, AS A NATURAL PRESERVATIVE IN TAHINI**", is an authentic record of the project carried out by Ms. Ayisha Shakira V of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.



Shayee
Project Co-Ordinator

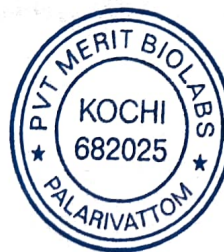


Ref NO.MB/AUG/MB/24/786

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "**APPLICATION OF POMEGRANATE PEEL EXTRACT, AN AGRICULTURAL WASTE PRODUCT, AS A NATURAL PRESERVATIVE IN TAHINI**", is an authentic record of the project carried out by Ms. Nasreen A of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.



[Signature]
Project Co-Ordinator



Ref NO.MB/AUG/MB/24/783

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "**APPLICATION OF POMEGRANATE PEEL EXTRACT, AN AGRICULTURAL WASTE PRODUCT, AS A NATURAL PRESERVATIVE IN TAHINI**", is an authentic record of the project carried out by Ms. Shahana Fairouz PE of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.



Shayee
Project Co-Ordinator

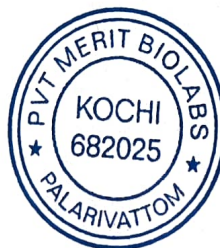


Ref NO.MB/AUG/MB/24/784

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "**APPLICATION OF POMEGRANATE PEEL EXTRACT, AN AGRICULTURAL WASTE PRODUCT, AS A NATURAL PRESERVATIVE IN TAHINI**", is an authentic record of the project carried out by Ms. Nayana MK of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.



[Signature]
Project Co-Ordinator





Ref NO.MB/AUG/MB/24/785

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "**APPLICATION OF POMEGRANATE PEEL EXTRACT, AN AGRICULTURAL WASTE PRODUCT, AS A NATURAL PRESERVATIVE IN TAHINI**", is an authentic record of the project carried out by Ms. Hiba Sher Khan K of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.



[Handwritten Signature]

Project Co-Ordinator



Near Ajmal Hospital , mainroad , Mongam , Malappuram. Mob no: 9544500035
Branches : areekode , kizhissery , edavannappara

Date: 18/10/23.....

This is to certify that, this dissertation entitled “**The impact of age and gender on the serum lipid profile at the selected locality**” is an authentic record of the project carried out by **SHANA YASMIN K** of EMEA college kondotty, kumminipparamb during the period from 7 september 2023 to 17th september 2023 under my guidance in partial fulfillment for the BSc Biochemistry.

Ali Akbar C K
M.Sc. Biochemistry



Near Ajmal Hospital , mainroad , Mongam , Malappuram. Mob no: 9544500035
Branches : areekode , kizhissery , edavannappara

Date: ..18/10/23.....

This is to certify that, this dissertation entitled “The impact of age and gender on the serum lipid profile at the selected locality” is an authentic record of the project carried out by NIDHA HAIFA A C of EMEA college kondotty, kumminipparamb during the period from 7 september 2023 to 17th september 2023 under my guidance in partial fulfillment for the BSc Biochemistry.

Ali Akbar C K
M.Sc. Biochemistry



Near Ajmal Hospital , mainroad , Mongam , Malappuram. Mob no: 9544500035
Branches : areekode , kizhissery , edavannappara

Date:18/10/23.....

This is to certify that, this dissertation entitled “**The impact of age and gender on the serum lipid profile at the selected locality**” is an authentic record of the project carried out by **MOHAMMED AMEEN C K** of EMEA college kondotty, kumminipparamb during the period from 7 september 2023 to 17th september 2023 under my guidance in partial fulfillment for the BSc Biochemistry.

Ali Akbar C K
M.Sc. Biochemistry



Near Ajmal Hospital , mainroad , Mongam , Malappuram. Mob no: 9544500035
Branches : areekode , kizhissery , edavannappara

Date: ...13/10/23.....

This is to certify that, this dissertation entitled “**The impact of age and gender on the serum lipid profile at the selected locality**” is an authentic record of the project carried out by **ABDUL MAJID V** of EMEA college kondotty, kumminipparamb during the period from 7 september 2023 to 17th september 2023 under my guidance in partial fulfillment for the BSc Biochemistry.

Ali Akbar C K
M.Sc. Biochemistry



Near Ajmal Hospital , mainroad , Mongam , Malappuram. Mob no: 9544500035
Branches : areekode , kizhissery , edavannappara

Date: ...18/10/23.....

This is to certify that, this dissertation entitled “**The impact of age and gender on the serum lipid profile at the selected locality**” is an authentic record of the project carried out by **HILFA** of EMEA college kondotty, kumminipparamb during the period from 7 september 2023 to 17th september 2023 under my guidance in partial fulfillment for the BSc Biochemistry.

Ali Akbar C K
M.Sc. Biochemistry




Ref NO.MB/AUG/MB/24/795

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "***The effect of Allium sativum as a prebiotic substance on the activity of probiotic bacteria Lactobacillus sps against food borne pathogens***", is an authentic record of the project carried out by Mr. Muhammed Danish of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.




Project Co-Ordinator





Ref NO.MB/AUG/MB/24/797

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "***The effect of Allium sativum as a prebiotic substance on the activity of probiotic bacteria Lactobacillus sps against food borne pathogens***", is an authentic record of the project carried out by Mr. Muhammed Nihal A of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.



J. Jaye

Project Co-Ordinator





Ref NO.MB/AUG/MB/24/794

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "***The effect of Allium sativum as a prebiotic substance on the activity of probiotic bacteria Lactobacillus sps against food borne pathogens***", is an authentic record of the project carried out by Ms. Fathima Hanan PT of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.




Project Co-Ordinator





Ref NO.MB/AUG/MB/24/792

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "***The effect of Allium sativum as a prebiotic substance on the activity of probiotic bacteria Lactobacillus sps against food borne pathogens***" is an authentic record of the project carried out by Ms. Rushda A of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.



Rushda A
Project Co-Ordinator



Ref NO.MB/AUG/MB/24/796

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "***The effect of Allium sativum as a prebiotic substance on the activity of probiotic bacteria Lactobacillus sps against food borne pathogens***", is an authentic record of the project carried out by Mr. Hashim Badusha.k of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.



Neeye
Project Co-Ordinator



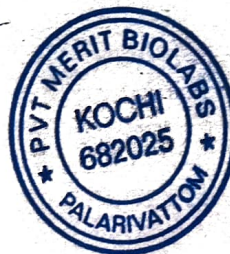


Ref NO.MB/AUG/MB/24/791

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "**ISOLATION OF PHOSPHATE SOLUBILIZING MICROORGANISMS NATURALLY COLONIZING THE RICE RHIZOSPHERE SOIL**", is an authentic record of the project carried out by Ms. Aysha Nana PVC of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.




Project Co-ordinator



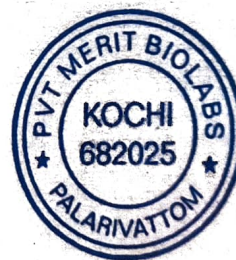


Ref NO.MB/AUG/MB/24/788

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "**ISOLATION OF PHOSPHATE SOLUBILIZING MICROORGANISMS NATURALLY COLONIZING THE RICE RHIZOSPHERE SOIL**", is an authentic record of the project carried out by Ms. Fathima Shabna.K.P of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.



Neeraj
Project Co-Ordinator



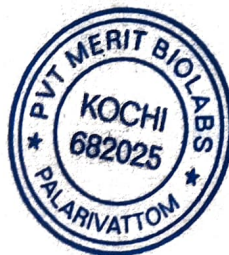


Ref NO.MB/AUG/MB/24/787

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "**ISOLATION OF PHOSPHATE SOLUBILIZING MICROORGANISMS NATURALLY COLONIZING THE RICE RHIZOSPHERE SOIL**", is an authentic record of the project carried out by Ms. Fathima Amrin of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.



Jayap
Project Co-ordinator



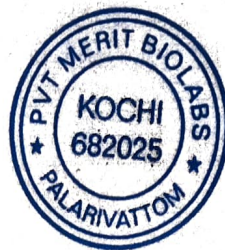


Ref NO.MB/AUG/MB/24/789

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "**ISOLATION OF PHOSPHATE SOLUBILIZING MICROORGANISMS NATURALLY COLONIZING THE RICE RHIZOSPHERE SOIL**", is an authentic record of the project carried out by Ms. Nabeela Sherin.P of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala Kozhikode during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.



J. S. S.

Project Co-Ordinator

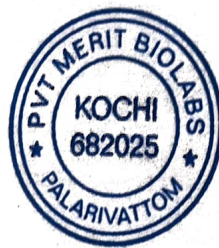


Ref NO.MB/AUG/MB/24/790

Dt. 26-02-2024

CERTIFICATE

This is to certify that, this dissertation entitled "**ISOLATION OF PHOSPHATE SOLUBILIZING MICROORGANISMS NATURALLY COLONIZING THE RICE RHIZOSPHERE SOIL**", is an authentic record of the project carried out by Ms. Nafiya Benzy.N.C of EMEA College of Arts and Science, Kumminiparamba, Kondotty, Malappuram, Kerala during the period from 30th August 2023 to 09th September 2023 under my guidance in partial fulfillment for the BSc Biochemistry.



Naveen
Project Co-ordinator