

EFFECT OF SODIUM NITRATE ON THE CORROSION BEHAVIOUR OF MILD STEEL, STAINLESS STEEL & COPPER

A DISSERTATION SUBMITTED TO
ST.MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

Affiliated by Manonmaniam Sundaranar University,
In partial fulfillment of the requirements for the award of the degree of

MASTER OF SCIENCE IN MICROBIOLOGY

SUBMITTED BY

P.DURGA

(REG. NO. 18SPMB02)

Under the Guidance of

MS. A. MARIA HEARTINA ADLIN VAZ M.SC., SET



DEPARTMENT OF MICROBIOLOGY
ST.MARY'S COLLEGE (AUTONOMOUS),
THOOTHUKUDI – 628 001.

OCTOBER - 2019

BONAFIDE CERTIFICATE

This is to certify that this dissertation work entitled "EFFECT OF SODIUM NITRATE ON THE CORROSION BEHAVIOUR OF MILD STEEL, STAINLESS STEEL, & COPPER" is a bonafide record of the original work completed by **P.DURGA Reg. 18SPMB02** during the academic year 2019-2020 in St. Mary's College (Autonomous), Thoothukudi and submitted as a partial fulfillment of requirements for the award of the degree of Master of Science in Microbiology prescribed by the University of Manonmaniam Sundaranar.



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Signature of the H.O.D

Head
Department of Microbiology
St. Mary's College, (Autonomous)
Thoothukudi



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Director

Self Supporting Courses
St. Mary's College (Autonomous)
Thoothukudi - 628 001.



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Principal

St. Mary's College (Autonomous)
Thoothukudi - 628 001.



Signature of the External Examiner

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Signature of the Student



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Place: Thoothukudi

Date: 25.10.2019

FORMULATION OF HERBAL OINTMENT FROM *Commelina benghalensis* L.FOR THE ISOLATED MICROFLORA FROM INFECTED WOUND SAMPLE OF RURAL CHILDREN

DISSERTATION SUBMITTED TO
ST.MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI
Affiliated to Manonmaniam Sundaranar University,
In Partial fulfillment of the requirement for the award of the degree of

MASTER OF SCIENCE IN MICROBIOLOGY

SUBMITTED BY

ISHA J.SILVA

(REG NO :18SPMB03)

Under the Guidance of

DR.C.SILUVAI KIRUBAGARI ANEESHIA M.sc,Ph.D




DEPARTMENT OF MICROBIOLOGY
ST.MARY'S COLLEGE (AUTONOMOUS),
THOOTHUKUDI - 628 001


CERTIFICATE

This is to certify that this dissertation work entitled **FORMULATION OF HERBAL OINTMENT FROM *Commelina benghalensis* L.FOR THE ISOLATED MICROFLORA FROM INFECTED WOUND SAMPLE OF RURAL CHILDREN** submitted to St. Mary's College (Autonomous), Thoothukudi affiliated to **Manonmaniam Sundaranar University**, Tirunelveli for the partial fulfillment of award of the degree of Master of science in Microbiology is a bonafide research carried out by **J.ISHA SILVA** under the guidance and supervision of **Dr.C.Siluvai Kirubagari Aneeshia M.Sc.,Ph.D**, Assistant professor of Department of Microbiology, **St. Mary's College (Autonomous), Thoothukudi** for the academic year 2019-2022.


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SIGNATURE OF THE DIRECTOR
Director
Self Supporting Courses
St. Mary's College (Autonomous)
Thoothukudi - 628 001.


SIGNATURE OF THE PRINCIPAL
Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.


SIGNATURE OF THE EXAMINER
29/10/18.

PLACE: THOOTHUKUDI

DATE: 29. 10. 2018

DECLARATION

I hereby declare that the desertion work entitled is a **FORMULATION OF HERBAL OINTMENT FROM commelina benghalensis L.FOR THE ISOLATED MICROFLORA FROM INFECTED WOUND SAMPLE OF RURAL CHILDREN** bonafide record of the work completed by me during the academic year 2019-2020 in St.Mary's College (Autonomous), Thoothukudi and submitted as a partial fulfillment requirements for the award of the degree in master of science in microbiology prescribed by the Manonmaniam Sundarnar University. I also affirm that is original work done by under the supervision of DR.C.SILUVAI KIRUBAGARI ANEESHIA M.sc,Ph.D Assistant Proffesor , Department of Microbiology. St.Mary's College (Autonomous), Thoothukudi.



Signature of the student



SIGNATURE OF THE HOD

Place: Thoothukudi

Date: 25-10-19

**CORROSION INHIBITION OF METALS SUCH AS MILD STEEL,
STAINLESS STEEL AND ALUMINIUM USING SODIUM NITRITE AS AN
ORGANIC INHIBITOR**

A DISSERTATION SUBMITTED TO
ST.MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

Affiliated by Manonmaniam Sundaranar University,
In partial fulfillment of the requirements for the award of the degree of

MASTER OF SCIENCE IN MICROBIOLOGY

SUBMITTED BY

D.JEYA RUBY

(REG. NO.18SPMB04)

Under the Guidance of

Ms. A.MARIYA HEARTINA ADLIN VAZ M.SC., SET



DEPARTMENT OF MICROBIOLOGY

ST.MARY'S COLLEGE (AUTONOMOUS),

THOOTHUKUDI – 628 001.

OCTOBER - 2019

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This is to certify that this dissertation work entitled “CORROSION INHIBITION OF METALS SUCH AS MILD STEEL, STAINLESS STEEL AND ALUMINIUM USING SODIUM NITRITE AS AN ORGANIC INHIBITOR” is a bonafide record of the original work completed by **Ms. JEYA RUBY.D** **Reg. 18SPMB04** during the academic year 2019-2020 in St. Mary's College (Autonomous), Thoothukudi and submitted as a partial fulfillment of requirements for the award of the degree of Master of Science in Microbiology prescribed by the University of Manonmaniam Sundaranar.



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Signature of the H.O.D

Head
Department of Microbiology
St. Mary's College, (Autonomous)
Thoothukudi



Signature of the Director
Director

Self Supporting Courses
St. Mary's College (Autonomous)
Thoothukudi - 628 001.



Signature of the Principal
Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.



25/10/19

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DECLARATION

I hereby declare that the dissertation work entitled “**CORROSION INHIBITION OF METALS SUCH AS MILD STEEL, STAINLESS STEEL AND ALUMINIUM USING SODIUM NITRITE AS AN ORGANIC INHIBITOR**” is a bonafide record of the work completed by me during the academic year 2019-2020 in St. Mary’s College (Autonomous), Thoothukudi and submitted as a partial fulfillment of requirements for the award of the degree of Master of Science in Microbiology prescribed by the Manonmaniam Sundaranar University. I also affirm that this is a original work done by me under the supervision of **Ms. A.MARIYA HEARTINA ADLIN VAZ M.SC.,SET** Assistant Professor of department of Microbiology, St. Mary’s College (Autonomous), Thoothukudi.


Signature of the Student


Signature of the Guide

Place: Thoothukudi

Date: 25.10.2019

ISOLATION AND IDENTIFICATION OF MICROORGANISMS FROM MANGROVE SOIL

A DISSERTATION SUBMITTED TO
ST.MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

Affiliated by Manonmaniam Sundaranar University,

In partial fulfillment of the requirements for the award of the degree of

MASTER OF SCIENCE IN MICROBIOLOGY

SUBMITTED BY

A.JOSHPIN

(REG. NO.18SPMB05)

Under the Guidance of

Ms. N. ANITHA M.Sc., M.Phil.



DEPARTMENT OF MICROBIOLOGY
ST.MARY'S COLLEGE (AUTONOMOUS),
THOOTHUKUDI – 628 001.

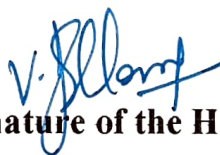
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Signature of the Guide



Signature of the H.O.D

Head

Department of Microbiology
St. Mary's College, (Autonomous)
Thoothukudi



Signature of the Director

Director

Self Supporting Courses

St. Mary's College (Autonomous)

Thoothukudi - 628 001.



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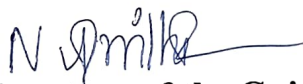
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Signature of the Student



Signature of the Guide

Place: Thoothukudi

Date: 25/10/19

THERAPEUTIC ACTIVITIES FROM FLOWER AND FRUIT OF
Nelumbo nucifera

A DISSERTATION SUBMITTED TO
ST.MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

Affiliated by Manonmaniam Sundaranar University,
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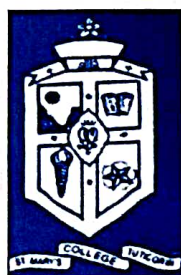
SUBMITTED BY

S.KALYANI

(REG. NO.18SPMB06)

Under the Guidance of

Dr. JOYS SELVA MARY ALBERT M.Sc., M.Phil., Ph.D.

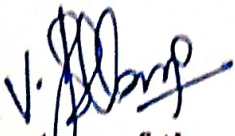


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ST.MARY'S COLLEGE (AUTONOMOUS),
THOOTHUKUDI – 628 001.

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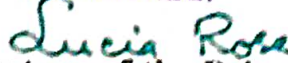
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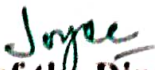
Department of Microbiology
St.Mary's College, (Autonomous)
Thoothukudi



Signature of the Principal

Principal

St. Mary's College (Autonomous)
Thoothukudi - 628 001.



Signature of the Director

Director

Self Supporting Courses
St. Mary's College (Autonomous)
Thoothukudi - 628 001.


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S.kalyani

Signature of the student

V. J. Mary

Signature of the Guide

Place: Thoothukudi

Date: 25-10-19

**EVALUTION OF ANTIBACTERIAL ACTIVITY AND
PHYTOCHEMICAL ANALYSIS OF *Cissus quadrangularis* STEM
AGAINST PATHOGENIC ORGANISMS**

A DISSERTATION SUBMITTED TO
ST.MARY'S COLLEGE (AUTONOMOUS),THOOTHUKUDI
Affiliated to Manonmaniam Sundaranar University,
In partial fulfilment of the requirements for the award of the degree of

MASTER OF SCIENCE IN MICROBIOLOGY

SUBMITTED BY
M.KANIMOZHI
(REG.NO.:18SPMB07)
Under the Guidance of
Ms.I.Jenifer



**DEPARTMENT OF MICROBIOLOGY
ST.MARY'S COLLEGE (AUTONOMOUS),
THOOTHUKUDI- 628 001**

OCTOBER-2019

BONAFIDE CERTIFICATE

This is to certify that this dissertation work entitled **EVALUTION OF ANTIBACTERIAL ACTIVITY AND PHYTOCHEMICAL ANALYSIS OF *Cissus quadrangularis* STEM AGAINST PATHOGENIC ORGANISMS** is a bonafide record of the original work completed by **M.KANIMOZHI Reg.18SPMB07** during the academic year 2019-2020 in St.Mary's College (Autonomous), Thoothukudi and submitted as a partial fulfilment of the requirements for the award of the degree of Master of Science in Microbiology prescribed by the university of Manonmanium Sundaranar.



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Director
Self Supporting Courses
St. Mary's College (Autonomous)
Thoothukudi - 628 001.



Signature of the HOD

Head
Department of Microbiology
St.Mary's College, (Autonomous)
Thoothukudi



Signature of the Principal
Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.



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M. Kanemogh

Signature of the student

I. Jenifer

SIGNATURE OF THE GUIDE

Place: Thoothukudi

Date: 25-10-19

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SUBMITTED BY

M.KANIMOZHI

(REG. NO.18SPMB07)

Under the Guidance of

Mrs. I.JENIFER M.Sc., M.Phil.



DEPARTMENT OF MICROBIOLOGY

ST.MARY'S COLLEGE (AUTONOMOUS),


THOOTHUKUDI – 628 001.

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Signature of the H.O.D
Head
Department of Microbiology
St. Mary's College, (Autonomous)
Thoothukudi


Signature of the Director
Director
Self Supporting Courses
St. Mary's College (Autonomous)
Thoothukudi - 628 001.


Signature of the Principal
Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.


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M. Karimozhi

Signature of the Student



Signature of the Guide

Place: Thoothukudi

Date: 25.10.2019

**AN EVALUTION OF ANTI ULCER ANTIOXIDANT AND
ANTIMICROBIAL ACTIVITY OF *Polyalthia longifolia***

**A DISSERTATION SUBMITTED TO
ST.MARY'S COLLEGE (AUTONOMOUS),THOOTHUKUDI**

Affiliated to Manonmaniam Sundaranar University,

In partial fulfilment of the requirements for the award of the degree of

MASTER OF SCIENCE IN MICROBIOLOGY

SUBMITTED BY

K.KARTHIKA

(REG.NO.:18SPMB08)

Under the Guidance of

Dr.Joys Selva Mary Albert M.Sc.,M.Phil.,Ph.D



**DEPARTMENT OF MICROBIOLOGY
ST.MARY'S COLLEGE (AUTONOMOUS),
THOOTHUKUDI- 628 001**

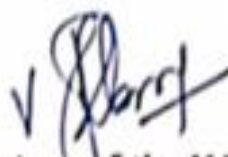
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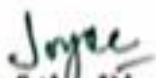
Department of Microbiology
St.Mary's College, (Autonomous)
Thoothukudi



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St. Mary's College (Autonomous)
Thoothukudi - 628 001.



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Self Supporting Courses
St. Mary's College (Autonomous)
Thoothukudi - 628 001.


25/10/21

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K. Karthika.

Signature of the student

Dr. Joys Selva Mary Albert

Signature of the guide

Place: Thoothukudi

Date: 25-10-19

**PHYTOCHEMICAL AND PHARMACOLOGICAL PROPERTIES OF
WHITE MANGROVE *Avicennia marina* BARK AND LEAVES**

A DISSERTATION SUBMITTED TO
ST.MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI
Affiliated by Manonmaniam Sundaranar University,
In partial fulfillment of the requirements for the award of the degree of

MASTER OF SCIENCE IN MICROBIOLOGY

SUBMITTED BY

S.KAVITHA

(REG. NO.18SPMB09)

Under the Guidance of

Ms. Dr. Joys Selva Mary Albert M.Sc., M.Phil.,Ph.D.




**DEPARTMENT OF MICROBIOLOGY
ST.MARY'S COLLEGE (AUTONOMOUS),
THOOTHUKUDI – 628 001.**

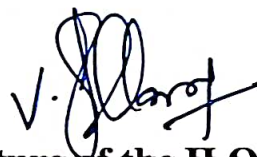
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This is to certify that this dissertation work entitled "PHYTOCHEMICAL AND PHARMACOLOGICAL PROPERTIES OF WHITE MANGROVE *Avicennia marina* BARK AND LEAVES" is a bonafide record of the original work completed by Ms. KAVITHA.S Reg. 18SPMB09 during the academic year 2019-2020 in St. Mary's College (Autonomous), Thoothukudi and submitted as a partial fulfillment of requirements for the award of the degree of Master of Science in Microbiology prescribed by the University of Manonmaniam Sundaranar.



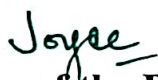
Signature of the Guide



Signature of the H.O.D

Head

Department of Microbiology
St. Mary's College, (Autonomous),
Thoothukudi



Signature of the Director
Director

Self Supporting Courses
St. Mary's College (Autonomous)
Thoothukudi - 628 001.



Signature of the Principal

Principal

St. Mary's College (Autonomous)
Thoothukudi - 628 001.



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S. Kavitha

Signature of the Student

V. Selva Mary

Signature of the Guide

Place: Thoothukudi

Date: 25.10.2019

**A STUDY ON PHARMACOLOGICAL ACTIVITIES OF *Agaricus bisporus* IN
DIFFERENT SOLVENTS**

**A DISSERTATION SUBMITTED TO
ST.MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI**

Affiliated to Manonmaniam Sundaranar University,

In partial fulfillment of the requirements for the award of the degree of

MASTER OF SCIENCE IN MICROBIOLOGY

SUBMITTED BY

A.K. LAVANYA

(REG. NO. 18SPMB10)

Under the Guidance of

Dr.Joys Selva Mary Albert M.Sc, M.Phil, Ph.D



**DEPARTMENT OF MICROBIOLOGY
ST.MARY'S COLLEGE (AUTONOMOUS),
THOOTHUKUDI-628001**

OCTOBER 2019

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This is to certify that this dissertation work entitled , **A Study on pharmacological Activities of *Agaricus bisporus* in different solvents** is a bonafide record of the original work computed by **A.K. LAVANYA , REG . 18SPMB10** during the academic year 2019-2020 in St.Mary's College (Autonomous), Thoothukudi and Submitted as a partial fulfillment of the requirements for the award of the degree of Master of science in Microbiology prescribed by the university of Manonmaniam Sundaranar.



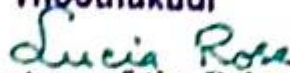
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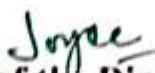
Department of Microbiology
St.Mary's College, (Autonomous)
Thoothukudi



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Principal

St. Mary's College (Autonomous)
Thoothukudi - 628 001.



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Director

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St. Mary's College (Autonomous)
Thoothukudi - 628 001.



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I hereby declare that the dissertation work entitled is **A study of pharmacological activities of Agaricus bisporus in different solvents** is a bonafide record of the work completed by me during the academic year 2019-2020 in St. Mary's College (Autonomous), thoothukudi and submitted as a partial fulfillment of requirements for the award of the degree of Master of Science in Microbiology prescribed by the Manonmaniam Sundaranar University. I also affirm that this is a original work done by me under the supervision of Dr. Joys Selva Mary Albert, M.sc., M.Phil., Ph.D., Head and assistant professor of department of Microbiology St. Mary's college (Autonomous), Thoothukudi.



Signature of the student



Signature of the Guide

Place: Thoothukudi

Date: 25-10-19

**MICROBICIDAL ACTIVITY OF THREE DIFFERENT MEDICINAL
PLANTS *Solanum nigrum*, *Sesbania grandiflora* AND *Eclipta prostrata***

A DISSERTATION SUBMITTED TO
ST.MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

Affiliated by Manonmaniam Sundaranar University,

In partial fulfillment of the requirements for the award of the degree of

MASTER OF SCIENCE IN MICROBIOLOGY

SUBMITTED BY

P.MONISHA

(REG. NO.18SPMB11)

Under the Guidance of

Ms. N. ANITHA M.Sc., M.Phil.

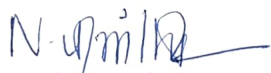


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ST.MARY'S COLLEGE (AUTONOMOUS),
THOOTHUKUDI – 628 001.

OCTOBER - 2019

BONAFIDE CERTIFICATE

This is to certify that this dissertation work entitled "**MICROBICIDAL ACTIVITY OF THREE DIFFERENT MEDICINAL PLANTS *Solanum nigrum, Sesbania grandiflora, Eclipta prostrata***" is a bonafide record of the original work completed by **Ms. MONISHA.P Reg. 18SPMB11** during the academic year 2019-2020 in St. Mary's College (Autonomous), Thoothukudi and submitted as a partial fulfillment of requirements for the award of the degree of Master of Science in Microbiology prescribed by the University of Manonmaniam Sundaranar.



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Signature of the H.O.D

Head

Department of Microbiology
St. Mary's College, (Autonomous)
Thoothukudi



Signature of the Director
Director

Self Supporting Courses

St. Mary's College (Autonomous)

Thoothukudi - 628 001.



Signature of the Principal

Principal

St. Mary's College (Autonomous)

Thoothukudi - 628 001.



Signature of the External Examiner

DECLARATION

I hereby declare that the dissertation work entitled “**MICROBICIDAL ACTIVITY OF THREE DIFFERENT MEDICINAL PLANTS *Solanum nigrum*, *Sesbania grandiflora* and *Eclipta prostrata***” is a bonafide record of the work completed by me during the academic year 2019-2020 in St. Mary's College (Autonomous), Thoothukudi and submitted as a partial fulfillment of requirements for the award of the degree of Master of Science in Microbiology prescribed by the Manonmaniam Sundaranar University. I also affirm that this is an original work done by me under the supervision of **Ms. N. ANITHA M.Sc., M.Phil.** Assistant Professor of department of Microbiology, St. Mary's College (Autonomous), Thoothukudi.



Signature of the Student



Signature of the Guide

Place: Thoothukudi

Date: 25.10.2019

“A STUDY ON PHARMACOLOGICAL ACTIVITIES OF *PROSOPIS JULIFLORA* LEAVES AND PODS”

A DISSERTATION SUBMITTED TO
ST. MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

Affiliated by Manonmaniam Sundaranar University,
In partial fulfillment of the requirements for the award of the degree of

MASTER OF SCIENCE IN MICROBIOLOGY

SUBMITTED BY

A. PRINCY SUJITHA

(REG. NO.18SPMB12)

Under the Guidance of

Dr. Joys Selva Mary Albert M.Sc., M.Phil., Ph.D.,

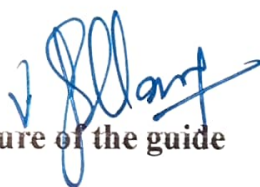


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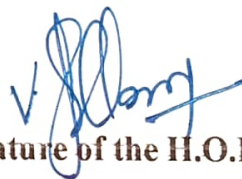
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This is to certify that this dissertation work entitled “A Study on Pharmacological activities of *Prosopis juliflora* leaves and pods” is a bonafide record of the original work completed by Ms. PRINCY SUJITHA A Reg. 18SPMB12 during the academic year 2019-2020 in St. Mary’s College (Autonomous), Thoothukudi and submitted as a partial fulfilment of requirements for the award of the degree of Master of Science in Microbiology prescribed by the university of Manonmaniam Sundaranar.



Signature of the guide



Signature of the H.O.D

Head
Department of Microbiology
St.Mary's College, (Autonomous)
Thoothukudi



Signature of the Principal
Principal

St. Mary's College (Autonomous)
Thoothukudi - 628 001.



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A. Princy Sujitha

Signature of the student

V. S. Mary

Signature of the Guide

Place: Thoothukudi

Date: 25 10. 2019

**AMYLASE PRODUCTION BY AGRO-INDUSTRIAL WASTES USING
BACILLUS SP AND E.COLI**

A DISSERTATION SUBMITTED TO
ST.MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

Affiliated by Manonmaniam Sundaranar University,
In partial fulfillment of the requirements for the award of the degree of

MASTER OF SCIENCE IN MICROBIOLOGY

SUBMITTED BY

B.PUNITHA LAKSHMI

(REG. NO.18SPMB14)

Under the Guidance of

Ms. I.JENIFER MSc, M.Phil




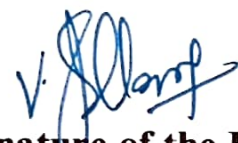
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ST.MARY'S COLLEGE (AUTONOMOUS),
THOOTHUKUDI – 628 001.

OCTOBER - 2019


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Signature of the Guide


Signature of the H.O.D
Head
Department of Microbiology
St.Mary's College. (Autonomous)


Signature of the Director
Director
Self Supporting Courses
St. Mary's College (Autonomous)
Thoothukudi - 628 001.


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Principal
St. Mary's College (Autonomous)
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Signature of the Student

Signature of the Guide

Place: Thoothukudi

Date: 25.10.2019

**A NOVEL APPROACH TO INVESTIGATE THE ANTI DIEBETIC, ANTI
INFLAMMATORY, ANTIMICROBIAL AND WOUND HEALING EFFECT
OF *Eicchorhia crassipes***

**A DISSERTATION SUBMITTED TO
ST.MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI**

Affiliated to Manonmaniam Sundaranar University,

In partial fulfillment of the requirements for the award of the degree of

MASTER OF SCIENCE IN MICROBIOLOGY

SUBMITTED BY

A. SHOBIA

(REG. NO. 18SPMB15)

Under the Guidance of

Dr.C. SILUVAI KIRUBAGIRI ANEESHIA , M.Sc, Ph.D



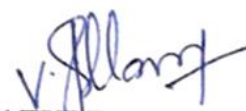
**DEPARTMENT OF MICROBIOLOGY
ST.MARY'S COLLEGE (AUTONOMOUS),
THOOTHUKUDI-628001**

OCTOBER 2019


BONOFIDE CERTIFICATE

This is to certify that this dissertation work entitled , **A NOVEL APPROACH TO INVESTIGATE THE ANTI DIABETIC, ANTI INFLAMMATORY, ANTIMICROBIAL AND WOUND HEALING EFFECT OF *Eccihornia crassipes*** is a bonafide record of the original work computed by **A. SHOBIA , REG . 18SPMB15** during the academic year 2019-2020 in St.Mary's College (Autonomous), Thoothukudi and Submitted as a partial fulfillment of the requirements for the award of the degree of Master of science in Microbiology prescribed by the university of Manonmaniam Sundaranar.


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SIGNATURE OF THE DIRECTOR
Director
Self Supporting Courses
St. Mary's College (Autonomous)
Thoothukudi - 628 001.


SIGNATURE OF THE PRINCIPAL
Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.


SIGNATURE OF THE EXAMINER
29/10/18.

PLACE: THOOTHUKUDI

DATE: 29. 10. 2018

DECLARATION

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Signature of the student



Signature of the Guide

Place: Thoothukudi

Date: 25-10-19

AN APPROACH FOR SYNTHESIS AND ANALYSIS OF BACTERIAL BIOPOLYMER (PHB)

A DISSERTATION SUBMITTED TO
ST.MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

Affiliated by Manonmaniam Sundaranar University,
In partial fulfillment of the requirements for the award of the degree of

MASTER OF SCIENCE IN MICROBIOLOGY

SUBMITTED BY

A.VENCIYA

(REG. NO. 18SPMB16)

Under the Guidance of

Dr.C.Siluvai Kirubagari Aneeshia, M.Sc., Ph.D.



DEPARTMENT OF MICROBIOLOGY
ST.MARY'S COLLEGE (AUTONOMOUS),
THOOTHUKUDI – 628 001.

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This is to certify that this dissertation work entitled “AN APPROACH FOR SYNTHESIS AND ANALYSIS OF BACTERIAL BIOPOLYMER (PHB)” is a bonafide record of the original work completed by Ms. VENCIYA.A Reg. 18SPMB16 during the academic year 2019-2020 in St. Mary's College (Autonomous), Thoothukudi and submitted as a partial fulfillment of requirements for the award of the degree of Master of Science in Microbiology prescribed by the University of Manonmaniam Sundaranar.



Signature of the Guide



Signature of the H.O.D

Head

Department of Microbiology
St. Mary's College, (Autonomous)
Thoothukudi



Signature of the Director

Director

Self Supporting Courses
St. Mary's College (Autonomous)
Thoothukudi - 628 001.



Signature of the Principal

Principal

St. Mary's College (Autonomous)
Thoothukudi - 628 001.



Signature of the External Examiner

DECLARATION

I hereby declare that the dissertation work entitled “**AN APPROACH FOR SYNTHESIS AND ANALYSIS OF BACTERIAL BIOPOLYMER (PHB)**” is a bonafide record of the work completed by me during the academic year 2019-2020 in St. Mary’s College (Autonomous), Thoothukudi and submitted as a partial fulfillment of requirements for the award of the degree of Master of Science in Microbiology prescribed by the Manonmaniam Sundaranar University. I also affirm that this is a original work done by me under the supervision of **Dr. C. Siluvai Kirubagari Aneeshia M.Sc., Ph.D.**, Assistant Professor of department of Microbiology, St. Mary’s College (Autonomous), Thoothukudi.



Signature of the Student



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Place: Thoothukudi

Date: 25.10.19