Identification and Characterization of Bacterial Contaminants in Municipal Water



Project Report Submitted In partial fulfilment of the Requirement for the Awards of the Degree of

MASTER OF SCIENCE IN BOTANY

By A. Suneetha

(Regd. No. 1651001)

DEPARTMENT OF BOTANY KVR Govt. College for Women, P.G. (Autonomous), Kurnool.



DEPARTMENT OF BOTANY

K.V.R. Govt. College for Women P.G. (Autonomous), Kurnool

CERTIFICATE

This is to certify that the project work entitled "Identification and Characterization of Bacterial Contaminants in Municipal Water" submitted by A.Suneetha, (Regd. No. 1651001) to K.V.R. Govt. College for Women, P.G. (Autonomous), Kurnool in partial fulfillment of requirements for the award of the degree of master of Science is bonafide record of the project work done under the guidance of the Dr. R. Vinolya Kumari, as per the code of academic and research ethics.

The content of this project have not been submitted and will not be either in part or in full, for the award of any other degree or diploma in the institute or another institute of university. The project fulfills the requirements and regulation of the university and in my opinion meets the necessary standards for submission.

DR.R. VINOTVA KUMARI,

K.V.R. Gu.

BOTANY /omen (A)

DR.R. VINOLYA KUMARI,

M.Sc, Ph.D. ASSISTANT PROFESSOR IN BOTANY K.V.R. ge for Women (A)

hu- HOOL.

K. b. Rolino (Dr. K. v. RATNAM) AMI. Motemor (1) Dept-of Botans Ruinni

Isolation and Characterization of Micro Organisms from Soil Sample



Project Report Submitted In partial fulfilment of the Requirement for the Awards of the Degree of

MASTER OF SCIENCE IN BOTANY

By E. Radhamma

(Regd. No. 1651003)

DEPARTMENT OF BOTANY KVR Govt. College for Women, P.G. (Autonomous), Kurnool.



K.V.R. Govt college for women, P.G.(Autonomous) Kurnool (Rayalaseema University)

CERTIFICATE

This is to certify that the project work entitled isolation of microorganisms for soil sample submitted by E.RADHAMMA Reg.No.1651003 to K.V.R. Govt college for women, P.G.(Autonomous) Kurnool in partial fulfillment of requirements for the award of the degree of master of science is a bonafide record of the project work done under the guidance of the Dr.R. Vinolya kumari, as per the code of academic and research ethics.

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Sc. Ph.D. ASSIS I K.V.R. Gu.

Women (A) KURNUOL.

DR.R. VINOLYA KUMARI, ASSISTANT PROPESSOR IN BOTANY K.V.R. Govt. Col. for Women (A)

KURNOOL.

Dr. K. V. RATNAM)

Alst. Professor(co

Depr. of Botany

RU, Krl



K.V.R. Govt college for women, P.G.(Autonomous) Kurnool (Rayalaseema University)

CERTIFICATE

This is to certify that the project work entitled isolation of microorganisms for soil sample submitted by E.RADHAMMA Reg.No.1651003 to K.V.R. Govt college for women, P.G.(Autonomous) Kurnool in partial fulfillment of requirements for the award of the degree of master of science is a bonafide record of the project work done under the guidance of the Dr.R. Vinolya kumari, as per the code of academic and research ethics.

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DR.R. WINGIVA KUMARI,

KURNUOL.

ASSIST, K.V.R. Gu.

Sc. Ph.D. IN BOTANY Women (A)

DR.R. VINOLYA KUMARI,

ASSISTANT PROMISSOR IN BOTANY K.V.R. Govt. Col. for Women (A)

KURNOOL.

(Dr. K. V. RATNAM)

Alst. Protessor(co

Depr. of Botany

RU, Krl

Identification and Characterization of Bacterial Contaminants in Municipal Water



Project Report Submitted In partial fulfilment of the Requirement for the Awards of the Degree of

MASTER OF SCIENCE IN BOTANY

By E. Sinduradevi

(Regd. No. 1651004)

EXAMPLE 1 DEPARTMENT OF BOTANY KVR Govt. College for Women, P.G. (Autonomous), Kurnool.



DEPARTMENT OF BOTANY

K.V.R. Govt. College for Women P.G. (Autonomous), Kurnool

CERTIFICATE

This is to certify that the project work entitled "Identification and Characterization of Bacterial Contaminants in Municipal Water" submitted by E.Sindura Devi, (Regd. No. 1651004) to K.V.R. Govt. College for Women, P.G. (Autonomous), Kurnool in partial fulfillment of requirements for the award of the degree of master of Science is bonafide record of the project work done under the guidance of the Dr. R. Vinolya Kumari, as per the code of academic and research ethics.

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Signature of Internal Guide

Head of the Department

DR.R. VINOLYA KUMARI, M Sc. Ph.D. ASSISTANT PROFESSOR IN BOTANY K.V.R. Govt College for Women (A) KURNOOL. DR.R. VINOLYA KUMARI, M.Sc, Ph.D. ASSISTANT PROFESSOR IN BOTANY K.V.R. Govt. College for Women (A) KURNOOL.

(Dr. K. V. RATNAM) DEPTO + BOTAMIRV AMT. PT of en or CO, DEPTO + BOTAMIRV

Testing the Inhibitory Activity of Selected Herbs Against Staphylococcus Aureus, A Scalp Pathogen



Project Report Submitted In partial fulfilment of the Requirement for the Awards of the Degree of

MASTER OF SCIENCE IN BOTANY

By K. Suvarthamma

(Regd. No. 1651006)

DEPARTMENT OF BOTANY

KVR Govt. College for Women, P.G. (Autonomous), Kurnool.



DEPARTMENT OF BOTANY

K.V.R. Govt. College for Women P.G. (Autonomous), Kurnool

CERTIFICATE

This is to certify that the project work entitled "Testing the Inhibitory Activity of Selected Herbs against Staphylococcus aureus, A scalp Pathogen" submitted by K.Suvarthamma, (Regd. No. 1651006) to K.V.R. Govt. College for Women, P.G. (Autonomous), Kurnool in partial fulfillment of requirements for the award of the degree of master of Science is bonafide record of the project work done under the guidance of the Dr. R. Vinolya Kumari, as per the code of academic and research ethics.

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Signature of Internal Guide

DR.R. VINOLYA KUMARI,
M.Sc, Ph.D.

ASSISTAND PROFESSOR IN BOTANY
K.V.R. Governormal (A)

KUKNOOL.

Head of the Department

DR.R. VINOLYA KUMARI,
M.Sc, Ph.D.
ASSISTANT PROFESSOR IN BOTANY
K.V.R. Govt. College for Women (A)
KURNOOL.

L. 10. Ration (Dr. K. V. RATNAM) AMT- Professor (L) Dept-of Botany, RUIKIL

Isolation and Identification of Desiel Degrading Bacteria from Soil



Project Report Submitted In partial fulfilment of the Requirement for the Awards of the Degree of

MASTER OF SCIENCE IN BOTANY

By M. Susmitha

(Regd. No. 1651007)

DEPARTMENT OF BOTANY KVR Govt. College for Women, P.G. (Autonomous), Kurnool.



K.V.R. Govt college for women, P.G.(Autonomous) Kurnool

(Rayalaseema University)

CERTIFICATE

This is to certify that the project work entitled isolation and identification of desiel degrading bacteria from soil submitted by M.SUSMITHA Reg.No.1651007 to K.V.R. Govt college for women, P.G.(Autonomous) Kurnool in partial fulfillment of requirements for the award of the degree of master of science is a bonafide record of the project work done under the guidance of the Dr.R. Vinolya kumari, as per the code of academic and research ethics

The content of this project have not been submitted and will not be either in part or in full, for the award of any other degree or diploma in the institute or another institute or university. The project fulfills the requirements and regulation of the university and in my opinion meets the necessary standards for submission

DR.P "NOLYA KUMARI,

M.Sc. Ph.D. LESSOR IN BOTANY K.V.R. Gc. Allege for Women (A)

KURNOOL.

DR.R. VINOLYA KUMARI,

M.Sc. Ph.D.
ASSISTANT PROFESSOR IN BOTANY K.V.R. Govt. College for Women (A)

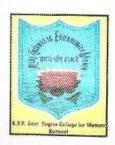
(L. V. Restrict KURNOOL.

(Dr. K. V. RATNAM)

Ant. profenor(10

Deprod Borong, RV, KML

Isolation and Identification of Desiel Degrading Bacteria from Soil



Project Report Submitted In partial fulfilment of the Requirement for the Awards of the Degree of

MASTER OF SCIENCE IN BOTANY

By M. Susmitha

(Regd. No. 1651007)

DEPARTMENT OF BOTANY KVR Govt. College for Women, P.G. (Autonomous), Kurnool.



K.V.R. Govt college for women, P.G.(Autonomous) Kurnool

(Rayalaseema University)

CERTIFICATE

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DR.P '"NOLYA KUMARI, M.Sc. Ph.D.

ASSIS LISSOR IN BOTANY KURNOOL.

DR.R. VINOLYA KUMARI, M.Sc, Ph.D.
ASSISTANT PROFESSOR IN BOTANY

K.V.R. Govt. College for Women (A)

(L. V. Ratina KURNOOL.

(Dr. K. V. RATNAM)

Ant. profenor(10

Depriod Botan, RV, KML

Isolation and Characterization of Micro Organisms from Soil Sample



Project Report Submitted In partial fulfilment of the Requirement for the Awards of the Degree of

MASTER OF SCIENCE IN BOTANY

By M. Nirmalatha

(Regd. No. 1651010)

DEPARTMENT OF BOTANY KVR Govt. College for Women, P.G. (Autonomous), Kurnool.



K.V.R. Govt college for women, P.G.(Autonomous) Kurnool (Rayalaseema University)

CERTIFICATE

This is to certify that the project work entitled isolation of microorganisms for soil sample submitted by M.Nirmalatha (1651010) to K.V.R. Govt college for women, P.G.(Autonomous) Kurnool in partial fulfillment of requirements for the award of the degree of master of science is a bonafide record of the project work done under the guidance of the Dr.R. Vinolya kumari, as per the code of academic and research ethics.

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Signature of Internal guide

K. U. Ralino

Head of the Department

DR.R. VINOLYA KUMARI,

M.Sc. Ph.D.

ASSISTAN PROFESSOR IN BOTANY
K.V.R. Govt College for Women (A)

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M. VENKATA RATNADDR.R. VINOLYA KUMARI,

ASSL-Protenor KASSISTANT PROFESSOR IN BOTANY

Dept- of Botany K.V.R. Govi. College for Women (A)

KURNOOL.

Production, Purification and Quantification of Alginate Lyase Produced from Soli Bacteria



Project Report Submitted In partial fulfilment of the Requirement for the Awards of the Degree of

MASTER OF SCIENCE IN BOTANY

By
M. Rebecamma
(Regd. No. 1651012)

DEPARTMENT OF BOTANY
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K.V.R. Govt college for women, P.G.(Autonomous) Kurnool (Rayalaseema University)

CERTIFICATE

Production, purification and quantification of Alginate Lyase Produced from Soli Bacteria submitted by M.REBECAMMA (Reg.No.1651012) to K.V.R. Govt college for women, P.G. (Autonomous) Kurnool in partial fulfillment of requirements for the award of the degree of master of science is a bonafide record of the project work done under the guidance of the Dr.R. Vinolyakumari, as per the code of academic and research ethics.

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Signature of Internal guide

DR.R. VINOLYA KUMARI, M.Sc, Ph.D. ASSISTANT PROFESSOR IN BOTANY K.V.R. Gov! College for Women (A)

KURNOOL.

Head of the Department

DR.R. VINOLYA KUMARI,
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KURNOOL.

R.U. Rollino (Dr.K.V. RATNAM) ANST. Protenor (L)

Dept of Botany, Rullen

Isolation and Identification of Desiel Degrading Bacteria from Soil



Project Report Submitted In partial fulfilment of the Requirement for the Awards of the Degree of

MASTER OF SCIENCE IN BOTANY

By N. Chandrakala

(Regd. No. 1651014)

DEPARTMENT OF BOTANY
KVR Govt. College for Women, P.G. (Autonomous), Kurnool.



K.V.R. Govt college for women, P.G.(Autonomous) Kurnool

(Rayalaseema University)

CERTIFICATE

This is to certify that the project work entitled isolation and identification of desiel degrading bacteria from soil submitted by N.CHANDRA KALA Reg.No.1651014 to K.V.R. Govt college for women, P.G.(Autonomous) Kurnool in partial fulfillment of requirements for the award of the degree of master of science is a bonafide record of the project work done under the guidance of the Dr.R. Vinolya kumari, as per the code of academic and research ethics.

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Signature of Internal guide

Head of the Department

DR.R. VINOLYA KUMARI, M.Sc., Ph.D. ASSISTANT PROFESSOR IN BOTANY K.V.R. Govt. College for Women (A) KURNOOL. DR.R. VINOLYA KUMARI,
M.Sc, Ph.D.
ASSISTANT PROFESSOR IN BOTANY
K.V.R. Govt College for Women (A)
KURNOOL.

(Dr. K. U. RATNAM)

Asst. Profesor (C)

Dept. of Barry, Ruinn

Isolation and Identification of Desiel Degrading Bacteria from Soil



Project Report Submitted In partial fulfilment of the Requirement for the Awards of the Degree of

MASTER OF SCIENCE IN BOTANY

By
N. Pushpavathi
(Regd. No. 1651015)

DEPARTMENT OF BOTANY
KVR Govt. College for Women, P.G. (Autonomous), Kurnool.



K.V.R. Govt college for women, P.G.(Autonomous) Kurnool

(Rayalaseema University)

CERTIFICATE

This is to certify that the project work entitled isolation and identification of desiel degrading bacteria from soil submitted by N. PUSHPAVATHI Reg.No.1651015 to K.V.R. Govt college for women, P.G.(Autonomous) Kurnool in partial fulfillment of requirements for the award of the degree of master of science is a bonafide record of the project work done under the guidance of the Dr.R. Vinolya kumari, as per the code of academic and research ethics.

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DR.R. VINOLYA KUMARI, M.Sc, Ph.D. ASSISTANT PROFESSOR IN BOTANY V.R. Govt. College for Women (A)

KURNOOL.

DR.R. VINOLYA KUMARI, M.Sc, Ph.D.
ASSISTANT PROFESSOR IN BOTANY K.V.R. Govt. College for Women (A)

KURNOOL. (Or. K. VENKATA RATNAM)

ABST protemorco DEPT- Of BOTOMY, RUIKIL

Testing the Inhibitory Activity of Selected Herbs Against Staphylococcus Aureus, A Scalp Pathogen



Project Report Submitted In partial fulfilment of the Requirement for the Awards of the Degree of

MASTER OF SCIENCE IN BOTANY

By Patan Famida Khathun

(Regd. No. 1651016)

DEPARTMENT OF BOTANY
KVR Govt. College for Women, P.G. (Autonomous), Kurnool.



K.V.R. Govt. College for Women P.G. (Autonomous), Kurnool <u>CERTIFICATE</u>

This is to certify that the project work entitled "Testing the Inhibitory Activity of Selected Herbs against Staphylococcus aureus, A scalp Pathogen" submitted by P.Famida Khathun, (Regd. No. 1651016) to K.V.R. Govt. College for Women, P.G. (Autonomous), Kurnool in partial fulfillment of requirements for the award of the degree of master of Science is bonafide record of the project work done under the guidance of the Dr. R. Vinolya Kumari, as per the code of academic and research ethics.

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Signature of Internal Guide

Head of the Department

ASSISPAN N BOTAN

ASSISTANT PROTESCOP IN BOTANY
K.V.R. Gover Women (A)

(Dr-K, VENKATA RATINAM)
AMI. PROSEMOR (G)
Dept. Ob Botamy
RN1 Kn1.

Testing the Inhibitory Activity of Selected Herbs Against Staphylococcus Aureus, A Scalp Pathogen



Project Report Submitted In partial fulfilment of the Requirement for the Awards of the Degree of

MASTER OF SCIENCE IN BOTANY

By
Puru Umadevi
(Regd. No. 1651019)

EVR Govt. College for Women, P.G. (Autonomous), Kurnool.



DEPARTMENT OF BOTANY

K.V.R. Govt. College for Women P.G. (Autonomous), Kurnool

CERTIFICATE

This is to certify that the project work entitled "Testing the Inhibitory Activity of Selected Herbs against Staphylococcus aureus, A scalp Pathogen" submitted by P.Umadevi, (Regd. No. 1651019) to K.V.R. Govt. College for Women, P.G. (Autonomous), Kurnool in partial fulfillment of requirements for the award of the degree of master of Science is bonafide record of the project work done under the guidance of the Dr. R. Vinolya Kumari, as per the code of academic and research ethics.

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Signature of Internal Guide

Head of the Department

DR.R. VINOLYA KUMARI,
M.Sc. Ph.D.
ASSISTANT PROFESSOR IN BOTANY
K.V.R. Govt. College for Women (A)
KURNOOL.

DR.R. VINOLYA KUMARI,
M.Sc. Ph.D.
ASSISTANT From the DR IN BOTANY
K.V.R. Govi. George for Women (A)
KURNOOL.

(Dr. K.V. RATNAM)

AMT. Brotomer (C)

Dept- of Botany, Perkul

Isolation And Identification of Probiotic Bactertia from Curd



Project Report Submitted In partial fulfilment of the Requirement for the Awards of the Degree of

MASTER OF SCIENCE IN BOTANY

By R. Sasikala

(Regd. No. 1651020)

DEPARTMENT OF BOTANY

KVR Govt. College for Women, P.G. (Autonomous), Kurnool.

(An Autonomous college in the jurisdiction of RayalaseemaUniversity, Kurnool)



Department of Botany

K.V.R. Govt college for women, P.G.(Autonomous) Kurnool (Rayalaseema University)

CERTIFICATE

This is to certify that the project work entitled isolation and identification of probiotic bacteria from curd submitted by R.SASIKALA (Reg.No.1651020) to K.V.R. Govt college for women, P.G. (Autonomous) Kurnool in partial fulfillment of requirements for the award of the degree of master of science is a bonafide record of the project work done under the guidance of the Dr.R. Vinolyakumari, as per the code of academic and research ethics.

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Signature of Internal guide

DR.R. VINOLYA KUMARI,
M.Sc, Ph.D.
ASSISTANT PROFESSOR IN BOTANY
KV,R. Govi. College for Women (A)
KURNOOL.

Head of the Department

DR.R. VINOLYA KUMARI,
M.Sc., Ph.D.
ASSISTANT PROFESSOR IN BOTANY
K.V.R. Govt. College for Women (A)
KURNOOL.

(Dr. K. V. RATNAM)
Asst. Protessos (5)
Dept of Botany, Ruilline

Isolation and Characterization of Micro Organisms from Soil Sample



Project Report Submitted In partial fulfilment of the Requirement for the Awards of the Degree of

MASTER OF SCIENCE IN BOTANY

By
R. Malleswari
(Regd. No. 1651021)

DEPARTMENT OF BOTANY
KVR Govt. College for Women, P.G. (Autonomous), Kurnool.



K.V.R. Govt college for women, P.G.(Autonomous) Kurnool

(Rayalaseema University)

CERTIFICATE

This is to certify that the project work entitled Characterization of micro organisms from soil sample" "Isolation and submitted by R.MALLESWARI (Reg.No.1651021) to K.V.R. Govt college for women, P.G.(Autonomous) Kurnool in partial fulfillment of requirements for the award of the degree of master of science is a bonafide record of the project work done under the guidance of the Dr.R. Vinolya kumari, as per the code of academic and research ethics.

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BOTANY

DR.R. VINCTUS KIIMARI,

IN LOTANY ASSIST: " K.V.R. Gov Place: KUNIVUUL.

for Women (A)

Date;

K.V.R PG COLLEGE KURNOOL

DR.R. VINOLYA KUMARI. M.Sc. Ph.D.
ASSISTANT PROFESSOR IN BOTANY K.V.R. Govt. College for Women (A) KURNOOL.

Dept of Botany

Dept of Botany

Dept of Botany

Isolation And Identification of Probiotic Bactertia from Curd



Project Report Submitted In partial fulfilment of the Requirement for the Awards of the Degree of

MASTER OF SCIENCE IN BOTANY

By
S. Arshiya Mubeen
(Regd. No. 1651022)

DEPARTMENT OF BOTANYKVR Govt. College for Women, P.G. (Autonomous), Kurnool.

(An Autonomous College in the Jurisdiction of Rayalaseema University, Kurnool.)



Department of Botany K.V.R. Govt college for women, P.G.(Autonomous) Kurnool (Rayalaseema University)

CERTIFICATE

This is to certify that the project work entitled isolation and identification of probiotic bacteria from curd submitted by S. Arshiyamubeen (Reg.No.1651022) to K.V.R. Govt college for women, P.G.(Autonomous) Kurnool in partial fulfillment of requirements for the award of the degree of master of science is a bonafide record of the project work done under the guidance of the Dr.R. Vinolyakumari, as per the code of academic and research ethics.

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Signature of Internal guide

Head of the Department

DR.R. VINOLYA KUMARI, M.Sc, Ph.D. ASSISTANT PROFESSOR IN BOTANY

K.V.R. Gov. . . . rge for Women (A) KURNOOL.

ASSISTANT PROFESSOR IN BOTANY

K.V.R. Govt. College for Women (A)

Dept of Botany, Rucka

Isolation And Identification of Probiotic Bactertia from Curd



Project Report Submitted In partial fulfilment of the Requirement for the Awards of the Degree of

> MASTER OF SCIENCE IN BOTANY

By S. Ruksar Tabasum (Regd. No. 1651023)

DEPARTMENT OF BOTANY
KVR Govt. College for Women, P.G. (Autonomous), Kurnool.

(An Autonomous College in the Jurisdiction of
Rayalaseema University, Kurnool.)



Department of Botany

K.V.R. Govt college for women, P.G.(Autonomous) Kurnool

(Rayalaseema University)

CERTIFICATE

This is to certify that the project work entitled isolation and identification of probiotic bacteria from curd submitted bys.RUKSAR TABASUM(Reg.No.1651023) to K.V.R. Govt college for women, P.G.(Autonomous) Kurnool in partial fulfillment of requirements for the award of the degree of master of science is a bonafide record of the project work done under the guidance of the Dr.R. Vinolyakumari, as per the code of academic and research ethics.

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Signature of Internal quide

Signature of Internal guide

DR.R. VINOLYA KUMARI,
M.Sc. Ph.D. CK. VERKASA
ASSISTANT PROFESSOR IN BOTANY
K.VR. Govi. College for Women (A)
KURNOOL

K.G. Ratio CK.VENKASA PAINAM) ASST. PSOFOSON Dept- BOTANY RU, KNI- Head of the Department

DR.R. VINOLYA KUMARI,
M.Sc, Ph.D.
ASSISTANT PROFESSOR IN BOTANY
K.V.R. Govt. College for Women (A)
KURNOOL.



Title:

Phytochemical and Antibacterial activity of sapindus trifaliatus (Sapindaceae)



By

Shaik Reshma Regd. No. 1651025

In Partial fulfilment for the record of the degree of MASTER OF SCIENCE IN BOTANY - 2018 Submitted to

K.V.R. GOVT. COLLEGE FOR WOMEN P.G.

(Autonomous), Kurnool

An autonomous college in the Jurisdiction of Rayalaseema

University, Kurnool



DEPARTMENT OF BOTANY

K.V.R. Govt. College for Women P.G. (Autonomous), Kurnool

(Affiliate to Rayalaseema University, Kurnool)

CERTIFICATE

This is to certify that the project work entitle "PHYTOCHEMICAL AND ANTIBACTERIAL ACTIVITY OF SAPINDUS TRIFOLIATUS (SAPINDACEAE) (Kunkudu Chettu)" Submitted by SHAIK RESHMA (Reg. No. 1651025) to K.V.R. Govt. College for Women P.G. (Autonomous) Kurnool in partial fulfillment the requirement for the award of the degree of Master of Science is a bonafied record of the project work done under the guidance of the as per the code of academic and research ethics.

The content of this project have not been submitted and will not be either in part or in full, for the award of any other degree or diploma in the institute or university. The project fulfils the requirements and regulation of the university and in my opinion meets the necessary standards for submission.

Signature of the Internal Guide

DR.R. VINOLYA KUMARI, M.Sc. Ph.D. ASSISTANT PROFESSIOR IN BOTANY Head of the Department

K. G. Relia

DR.R. VINOLYA KUMARI, M.Sc. Ph.D. ASSISTANT PROFESSOR IN BOTANY K.V.R. Govt. College for Women (A) KURNOOL.

K.V.R. Govt Concentry Women (A)
KURNOUL.

Assit : professor (C) RUI KILL Dept of Botany , RUI KILL

Production, Purification and Quantification of Alginate Lyase Produced from Soli Bacteria



Project Report Submitted In partial fulfilment of the Requirement for the Awards of the Degree of

MASTER OF SCIENCE IN BOTANY

By S.R. Kavitha

(Regd. No. 1651026)

DEPARTMENT OF BOTANY
KVR Govt. College for Women, P.G. (Autonomous), Kurnool.

(An Autonomous College in the Jurisdiction of Rayalaseema University, Kurnool.)



Department of Botany

K.V.R. Govt college for women, P.G.(Autonomous) Kurnool

(Rayalaseema University)

CERTIFICATE

This is to certify that the project work entitled **Production, purification and quantification of Alginate Lyase Produced from Soli Bacteria** submitted **by S.R.Kavitha** (**Reg.No.1651026**) to K.V.R. Govt college for women, P.G.(Autonomous) Kurnool in partial fulfillment of requirements for the award of the degree of master of science is a bonafide record of the project work done under the guidance of the **Dr.R. Vinolyakumari**, as per the code of academic and research ethics.

The content of this project have not been submitted and will not be either in part or in full, for the award of any other degree or diploma in the institute or another institute or university. The project fulfills the requirements and regulation of the university and in my opinion meets the necessary standards for submission

Signature of Internal guide

guature of Internal guide

DR.R. VINOLYA KUMARI,
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DR.R. VINOLYA KUMARI, M.Sc., Ph.D. ASSISTANT PROFESSOR IN BOTANY K.V.R. Gov' Callage for Women (A)

K. U. Ratino (Dr.K. V. RATNAM) AMA protenor (6) Dept of Botaur, RUMAN

Identification and Characterization of Bacterial Contaminants in Municipal Water



Project Report Submitted In partial fulfilment of the Requirement for the Awards of the Degree of

MASTER OF SCIENCE IN BOTANY

By Y. Shilpa

(Regd. No. 1651028)

DEPARTMENT OF BOTANY KVR Govt. College for Women, P.G. (Autonomous), Kurnool.

(An Autonomous College in the Jurisdiction of Rayalaseema University, Kurnool.)



DEPARTMENT OF BOTANY

K.V.R. Govt. College for Women P.G. (Autonomous), Kurnool

CERTIFICATE

This is to certify that the project work entitled "Identification and Characterization of Bacterial Contaminants in Municipal Water" submitted by Y.Shilpa, (Regd. No. 1651003) to K.V.R. Govt. College for Women, P.G. (Autonomous), Kurnool in partial fulfillment of requirements for the award of the degree of master of Science is bonafide record of the project work done under the guidance of the Dr. R. Vinolya Kumari, as per the code of academic and research ethics.

The content of this project have not been submitted and will not be either in part or in full, for the award of any other degree or diploma in the institute or another institute of university. The project fulfills the requirements and regulation of the university and in my opinion meets the necessary standards for submission.

Signature of Internal Guide

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