# Identification and Characterization of Bacterial Contaminants in Muxicipal 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.
(An Autonomous College in the Jurisdiction of Rayalaseema University, Kurnool.)

# Department of Botany <br> 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.


Signature of Internal Guide



Head of the Department

DR.R. VINOLYA KUMARI,
MISc, PhD.
ASSISTANT WHOTESSOR IN BOTANY K.V.R. U. ge for Women (A)
K.U. Rains
(Dy. H.V. RAINAM)
Asst. Moteror (L)
Dept of Botany

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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<br>E. Radhamma<br>(Regd. No. 1651003)

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 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. VINOLYA KUMARI,
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Department of Botany

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

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DR.R. VINOLYA KUMARI,
ASSISTANT PRO.. SSOR. IN BOTANY
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(Dr.K.V.RATNAM)
Asst. protenorces
Dept of Botany
RU, kine

## 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<br>E. Sinduradevi

(Regd. No. 1651004)

## 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 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

DR.R. VINOLYA KUMARI, M SC. Ph.D.
R IN BOTANY ASSISTANT PROFESSOR IN BOTANY
K.V.R. Gov: College for Women (A) KURNOOL.
K-V-Roain
Rif lis a 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.

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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<br>K. Suvarthamma<br>(Regd. No. 1651006)

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 " 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, PhD.

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K.V.R. Gov eye for Women (A)
Head of the Department
kURNOOL.

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\begin{aligned}
& \text { (Dr.K.V. RATNAM) } \\
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& \text { Dept of Botany, DuIKnL }
\end{aligned}
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# 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<br>BOTANY

By<br>M. Susmitha

(Regd. No. 1651007)

DEPARTMENT OF BOTANY
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## 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 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.

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DR P ${ }^{\prime \cdots}$ VOLTA KUMARI,
M. Sc, PhD.

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\text { K.V.R. G. } \quad \text { ge for Women (A) }
$$ KURNOOL.



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

ASSISTANT PROCESSOR IN BOTANY
K.V.R. Govt. College for Women (A) KURNOOL.
(Dr KV V RATNAM)
AMt. protenorClo
Despr of Botany, RU, kn

# 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<br>M. Susmitha<br>(Regd. No. 1651007)

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


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(D r•K•V. RATNAM)
ANAt. protenorclo
Despr of Botany, Ru, kn

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<br>M. Nirmalatha<br>(Regd. No. 1651010)

DEPARTMENT OF BOTANY
KVR Govt. College for Women, P.G. (Autonomous), Kurnool.
(An Autonomous College in the Jurisdiction of
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## Department of Botany

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## 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 Interial guide
K.U. Raliñ

Head of the Department
DR.R. VINOLYA KUMARI,
K. VENKAIA RAINA DR.R. VINOLYA KUMARI, ASSISTA: MF:SSOR MNB, Ph.D. K.V.R. Gov: , ollege for Women (A) KURNOOL.

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# 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<br>M. Rebecamma<br>(Regd. No. 1651012)

DEPARTMENT OF BOTANY
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## 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 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,
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Head of the Department

DR.R. VINOLYA KUMARI, MISc, PhD. ASSISTANT PROFESSOR IN BOTANY K.V.R. Govt. College for Women (A) KURNOOL.
(D r.K.V. RAINAM)

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\text { Asst. proteror }(<)
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Dept of Botany, Rui2enl

# 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 <br> N. Chandrakala

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KVR Govt. College for Women, P.G. (Autonomous), Kurnool.
(An Autonomous College in the Jurisdiction of
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## Department of Botany

# K.V.R. Govt college for women, P.G.(Autonomous) Kurnool <br> (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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pretuplenai
Signature of Internal guide

DR.R. VINOLYA KUMARI,
MASc, PhD.
ASSISTANT PROFESSOR IN BOTANY K.V.R. Govt. College for Women (A)


DR.R. VINOLYA KUMARI, MASc, PhD. ASSISTANT PROFESSOR IN BOTANY K.V.R. Govt College for Women (A) KURNOOL. KURNOOL.

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\begin{aligned}
& \text { K.U. Ratio } \\
& \text { (Dr.V.V.RATNAM) } \\
& \text { Asst. Proteror (C) } \\
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# 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 <br> IN <br> BOTANY 

By<br>N. Pushpavathi<br>(Regd. No. 1651015)

## DEPARTMENT OF BOTANY

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Rayalaseema University, Kurnool.)


## Department of Botany

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

## CERTIFICATE

This is to certify that the project work entitled isolation and identification of desiel degrading bacteria from soil submitted by $\mathbf{N}$. 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. Phi.

ASSISTANT PROFESSOR IN BOTANY
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DR.R. VINOLYA KUMARI,
MISc, PhD.
ASSISTANT PROFESSOR IN BOTANY
K.V.R. Govt. College for Women (A) KURNOOL.

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 <br> Patan Famida Khathun

(Regd. No. 1651016)

DEPARTMENT OF BOTANY
KVR Govt. College for Women, P.G. (Autonomous), Kurnool.
(An Autonomous College in the Jurisdiction of
Rayalaseema University, Kurnool.)

2018


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 Staphyiococcus 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



DR.R. VINOLYA KUMARI, M Sc. Ph.D.
ASSISTANT:
K.V.R. Govi
K, v. Roliw 1215 Lis KURIVOUL.
(Dr-K. VENWKAIT A RATNAM)
Asst. Professor (C)
Dept of Botamer
RNIKn ${ }^{2}$

## 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 <br> Puru Umadevi

(Regd. No. 1651019)

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

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## Signature of Internal Guide

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

ASSISTANT PFITESSOR IN BOTANY K.V.R. Govt College for Women (A) KURNOOL.


DR.R. V'NOLYA KUMARI,
M.Sc, Ph.D.
ASSISTANT $\quad$ OR IN BOTANY
K.V.R. Govt LL $=$ ge for Women (A)
KURNOOL.
(Dr.k.V. RATNAM)

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& \text { Ant protenor (C) } \\
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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 Rayalaseema University, Kurnool.)
(An Autonomous college in the jurisdiction of RayalaseemaUniversity,Kurnool)



## Department of Botany

# K.V.R. Govt college for women, P.G.(Autonomous) Kurnool <br> (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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DR.R. VINOLYA KUMARI,
ASSISTANT PROFESSOR MISC, PAID. KV,R. Govt. College for Women (A) KURNOOL.


DR.R. VINOLYA KUMARI, M. Sc, PhD

ASSISTANT PROFESSOR IN BOTANY K.V.R. Govt. College for Women (A) KURNOOL.
(orle. V.RATNAm)
Asst. Professor (c)
Dept of Botany, RU tome

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<br>R. Malleswari<br>(Regd. No. 1651021)

DEPARTMENT OF BOTANY<br>KVR Govt. College for Women, P.G. (Autonomous), Kurnool.<br>(An Autonomous College in the Jurisdiction of<br>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 Characterization of micro organisms from soil sample" 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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Place: kurvixuul.

## Date;



BOTANY
K.V.R PG COLLEGE KURNOOL

DR.R. VINOLYA KUMARI,
MSSISTANT PROFESSOR PhD.
AS BOTANY
K.V.R. Govt. College for Women (A)
K. U. Ralim

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## 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 <br> IN <br> BOTANY 

By<br>S. Arshiya Mubeen<br>(Regd. No. 1651022)

DEPARTMENT OF BOTANY
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(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, PhD. ASSISTANT PROFESSOR IN BOTANY K.V.R. Govt. College for Women (A) Dr-b.V.RAINNAM KURNOOL. Asst. protenon (C) Depth of Botany, ROM kn?

## 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<br>S. Ruksar Tabasum<br>(Regd. No. 1651023)

DEPARTMENT OF BOTANY
KVR Govt. College for Women, P.G. (Autonomous), Kurnool.
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Department of Botany
K. V.R. Govt coltege 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.

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 Intermal guide
DR.R. VINOLYA KUMARI,
M.Sc, Ph.D. CK.VENKKASA

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## 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 PROFESSOR IN BOTANY K.V.R. Govt. College for Women (A)
K. V. Relino (Dr.K. VENK ATA RATNAM) 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

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.

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Signature of Internal guide

DR.R. VINOLYA KUMARI,
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DR.R. VINOLYA KUMARI, M. Sc, PhD.

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K. 6. Rahino

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& \text { Dept of Botany, RDiknl }
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# Identification and Characterization of Bacterial Contaminants in Municipal Water 

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

MASTER OF SCIENCE IN BOTANY

By<br>Y. Shilpa

(Regd. No. 1651028)

DEPARTMENT OF BOTANY
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## 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.


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DR.R. VINOLYA KUMARI, M. Sc, Phi.

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