



ANNA UNIVERSITY, CHENNAI - 600 025
CENTRE FOR RESEARCH



CERTIFICATE

1. This is to certify that no corrections/suggestions were pointed out by the Indian/Foreign Examiner(s) in the Thesis titled " EXTRACTION OF SECONDARY METABOLITES FROM A NOVEL MARINE *Streptomyces cirratus* SRP11 AND ITS BIOLOGICAL ACTIVITIES " submitted by Mr./Ms. Shiyamala Devi.S

OR

2. This is to certify that all corrections and suggestions pointed out by the Indian /Foreign Examiner(s) are incorporated in the Thesis titled " EXTRACTION OF SECONDARY METABOLITES FROM A NOVEL MARINE *Streptomyces cirratus* SRP11 AND ITS BIOLOGICAL ACTIVITIES " submitted by Mr./Ms. Shiyamala Devi.S

Signature of the Joint Supervisor
(if applicable)


Signature of the Supervisor
Dr.S.RENGANATHAN
Professor
Department of Bio - Technology
A.C.Tech, Anna University
Chennai - 600 025.

Place :

Date :





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Proceedings of the Ph.D. Viva-Voce Examination of Mr./Ms. Shiyamala Devi.S held at 11:00 AM on 15.09.2015 in K.J Auditorium, Taramani Campus, Centre for Biotechnology, Anna University, Chennai.

The Ph.D. Viva-Voce Examination of Mr./Ms. Shiyamala Devi.S (Reg. No. 1224729133) on his/her Ph.D. Thesis Entitled " EXTRACTION OF SECONDARY METABOLITES FROM A NOVEL MARINE *Streptomyces cirratus* SRP11 AND ITS BIOLOGICAL ACTIVITIES " was conducted on 15.09.2015 at 11:00 AM in the K.J Auditorium, Taramani Campus, Centre for Biotechnology, Anna University, Chennai..




The following Members of the Oral Examination Board were present:

- | | |
|--|-----------------------|
| 1. Dr. P E Jagadeesh Babu,Assistant Professor,Department of Chemical Engineering,National Institute of Technology Karnataka,Surathkal Mangalore 575025 | Indian Examiner |
| 2. Dr. K.Pandian,Associate Professor,Department of Inorganic Chemistry,University of Madras Guindy Campus,Chennai 25 | Subject Expert |
| 3. Dr. Renganathan.S,Professor,Anna University,Chennai | Supervisor & Convenor |

The research scholar, Mr./Ms. Shiyamala Devi.S presented the salient features of his/her Ph.D. work. This was followed by questions from the board members. The questions raised by the Foreign and Indian Examiners were also put to the scholar. The scholar answered the questions to the full satisfaction of the board members.

The corrections suggested by the Indian/Foreign examiner have been carried out and incorporated in the Thesis before the Oral examination.

Based on the scholars research work, his/her presentation and also the clarifications and answers by the scholar to the questions, the board recommends that Mr./Ms.Shiyamala Devi.S be awarded Ph.D. degree in the **Faculty of Science and Humanities**.

- | | |
|--|---------------------------|
| 1. Dr. P.E. Jagadeesh Babu  | Indian Examiner |
| 2. Dr. K. PANDIAN  | Subject Expert |
| 3. Dr. S. RENGANATHAN  | Supervisor & Convenor |
| 4. | Joint Supervisor (If any) |



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The research work embodied in the present the Thesis entitled, **“EXTRACTION OF SECONDARY METABOLITES FROM A NOVEL MARINE *Streptomyces cirratus* SRP11 AND ITS BIOLOGICAL ACTIVITIES”** has been carried out in the Centre for Biotechnology, A.C Tech, Anna University, Chennai 600 025. The work reported herein is original and does not form part of any other thesis or dissertation on the basis of which a degree on award was conferred on an earlier occasion or to any other scholar.

I understand the University’s policy on plagiarism and declare that the thesis and publications are my own work, except where specifically acknowledge and has not been copied from other sources or been previously submitted for award or assessment.

SHIYAMALA DEVI S
RESEARCH SCHOLAR

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