

UNIVERSITI TEKNOLOGI MARA

**ISOLATION OF BIOACTIVE FUNGAL
METABOLITES FROM ENDOPHYTIC FUNGI**

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**Dissertation submitted in partial fulfillment of the
requirement for**

Faculty of Pharmacy

2012

ACKNOWLEDGEMENTS

In the name of Allah, the Most Gracious the Most Merciful. First and foremost, I would like to thank to Allah for His blessing toward accomplishing this project. Thanks our merciful ALLAH, May Your name be exalted, honored, and glorified.

I was so indebted to many people who helped me toward accomplishing this project. It is impossible for me to acknowledge every one of them individually, but several in particular deserve recognition.

I wish to express deepest appreciation and thanks to Dr. Sadia Sultan, supervisor for my research project, for her invaluable concern, sustained guidance and unsisting support which enable me to bring this project to completion. Her continuous review, guidance, ideas and suggestion have been precious to this piece of project. I really appreciate her intellectual capabilities and constructive criticism. She could not even realize how much I have learned from her. I owe her lots of gratitude for having shown this way of research.

I also would like to take this opportunity to show my gratitude to Professor Dr.J.F.F. Weber Abdullah, Dr. Wan Iryani, Dr. Kalavathy A/P Ramasamy and also Dr. Syed Adnan for their guidance and assistance during my research final project.

Not forgotten, special thanks to Mr. Hafiz Nauman and Ms. Fatmiah Bebe, for their insightful suggestion and assistance during my research project. Their enduring and unselfish support during the completion of this project has been invaluable for me. Thanks also to Mr. Zaimi, Mrs. Zuhrah, Ms. Durrah Fathiah, Ms. Nor Izzati, Ms. Nur Liyana and Ms. Najwa, for their support and inspiring words that spurred me on to work harder to make this project reality.

Thank you very much.

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ABSTRACT

The study was done to investigate the secondary metabolites produced by endophytic fungi of 3PR3 that can be used for medicinal plant purpose. The study was done by growing the fungi on Potato Dextrose Agar Plate (PDA). Then the cultures were incubated for a two-week period. After that, extraction of the fungi metabolite was performed by using ethyl acetate as a solvent. Fungal extracts had been subjected to High performance liquid chromatography (HPLC) using a diode array detector (DAD) to see the chromatogram and compare between batches. Then proceed to Semi PREP HPLC and collected all peaks in vial. After that fractions had been biologically tested on antibacterial activity and cytotoxic activity. From the observation, antibacterial test by MTT assay show negative result on all plate means there is no antibacterial activity produced by the extract of fungi 3PR3 against bacteria *Pseudomonas Aeruginosa*.