ANTIFUNGAL ACTIVITY FROM FRUIT PEEL EXTRACTS

NURUL SYAZWANI RAZALI

Final Year Project Submitted in
Partial Fulfillment of the Requirement for the
Degree of Bachelor of Science (Hons.) Biology
In the Faculty of Applied Sciences
Universiti Teknologi MARA

JULY 2017

This Final Year Project Report entitled **"Antifungal Activity from Fruit Peel Extracts"** was submitted by Nurul Syazwani Razali, in partial fulfilment of the requirements for the Degree of Bachelor of Science (Hons.) Biology, in the Faculty of Applied Sciences, and was approved by

_____

Sarini Ahmad Wakid
Supervisor
Faculty of Applied Sciences
Universiti Teknologi MARA
Cawangan Negeri Sembilan
72000 Kuala Pilah Negeri Sembilan

_____

Lili Syahani Binti Rusli
Project Coordinator
Faculty of Applied Sciences
Universiti Teknologi MARA
Cawangan Negeri Sembilan
72000 Kuala Pilah
Negeri Sembilan

_____

Dr. Nor'aishah Binti Abu Shah
Head of Programme
Faculty of Applied Sciences
Universiti Teknologi MARA
Cawangan Negeri Sembilan
72000 Kuala Pilah
Negeri Sembilan

Date : _____

TABLE OF CONTENTS

ABSTRACT

ANTIFUNGAL ACTIVITY FROM FRUIT PEELS EXTRACT

Antifungal drug from natural resources such as vegetables and fruits are more safety and environmental friendly than synthetic drugs. The aim of this study is to evaluate the antifungal activity from methanolic and chloroform extract of *Citrullus lanatus*, *Cucumis melo var. inodorus*, and *Cucumis melo var. cantalupensis* against *Rhizopus stolonifer*, *Aspergillus niger*, *Candida albicans* and *Saccharomyces sp.* and to screen the phytochemical compounds that present in the fruit peel extracts using Thin Layer Chromatography (TLC) technique. The antifungal activity was evaluated from the crude extracts by disc diffusion method. The phytochemical compounds present in the crude extracts were screened by TLC. From the result, the methanolic and chloroform extract of fruits peel had no antifungal activity against *R. stolonifera*, *A. niger*, *C. albicans* and *Saccharomyces sp.* Only the positive control (fluconazole) shows the inhibition zone, which is the highest value is 37.67 ± 0.58 against *Saccharomyces sp.*. Based on TLC, methanolic extract have higher retention factor (Rf) value than chloroform extract. The compound that present on the TLC plate is chlorophyll.