

**ANTIBACTERIAL POTENTIAL OF *Psidium guajava*
LEAVES EXTRACT AT THREE DIFFERENT LEAF
AGES TOWARD GRAM-POSITIVE AND GRAM-
NEGATIVE BACTERIA**

NURAMANINA BINTI MOHD ZAMZURI

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Fakhri Binti Awang @ Ismail

Co-supervisor

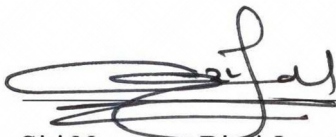
Faculty Of Applied Sciences

Universiti Teknologi MARA (UiTM)

Negeri Sembilan, Kampus Kuala Pilah

Pekan Parit Tinggi, 72000 Kuala Pilah

Negeri Sembilan



Siti Norazura Binti Jamal

Coordinator FSG661 AS201

Faculty Of Applied Sciences

Universiti Teknologi MARA (UiTM)

Negeri Sembilan, Kampus Kuala Pilah

Pekan Parit Tinggi, 72000 Kuala Pilah

Negeri Sembilan



Dr Aslizah Binti Mohd Aris

Head of Biology School

Faculty Of Applied Sciences

Universiti Teknologi MARA (UiTM)

Negeri Sembilan, Kampus Kuala Pilah

Pekan Parit Tinggi, 72000 Kuala Pilah

Negeri Sembilan

Date: _____

TABLE OF CONTENTS

	PAGE
ACKNOWLEDGEMENTS	iii
TABLE OF CONTENTS	iv
LIST OF TABLES	vi
LIST OF FIGURES	vii
LIST OF ABBREVIATIONS	viii
ABSTRACT	ix
ABSTRAK	x
CHAPTER 1: INTRODUCTION	1
1.1 Background of the study	1
1.2 Problem Statement	2
1.3 Significance of the Study	3
1.4 Objectives of the Study	4
CHAPTER 2: LITERATURE REVIEW	5
2.1 <i>Psidium guajava</i> Tree	5
2.2 Diarrhea-Causing Bacteria	6
2.2.1 Gram-negative bacteria	6
2.2.2 Gram-positive bacteria	7
2.3 Antibacterial Potential of <i>P. guajava</i>	8
2.3.1 <i>P. guajava</i> fruit extract	8
2.3.2 <i>P. guajava</i> leaf extract	10
CHAPTER 3: METHODOLOGY	13
3.1 Material	13
3.1.1 Raw Materials	13
3.1.2 Chemicals	14
3.1.3 Apparatus	14

3.2	Methods	15
3.2.1	Samples Collection	
3.2.2	Water Extraction	16
3.2.3	Ethanol Extraction	16
3.2.4	Gram Staining Method	17
3.2.5	Streak Plate Method	17
3.2.6	Paper Disc Diffusion	18
3.3	Statistical Analysis	19
 CHAPTER 4: RESULTS AND DISCUSSION		 20
4.1	Result of Gram Staining	20
4.2	Result of Streak Plate	21
4.3	Result of Inhibition Zone for Gram-negative Bacteria	23
4.4	Result of Inhibition Zone for Gram-positive Bacteria	25
4.5	Discussion of Inhibition Zone Toward Gram-positive and Gram negative Bacteria	27
 CHAPTER 5: CONCLUSIONS AND RECOMMENDATIONS		 33
 CITED REFERENCES		 35
APPENDICES		38
CURRICULUM VITAE		46

ABSTRACT

ANTIBACTERIAL POTENTIAL OF *Psidium guajava* LEAVES EXTRACT AT THREE DIFFERENT LEAF AGES TOWARD GRAM-POSITIVE AND GRAM-NEGATIVE BACTERIA

The potential of natural substances for pharmaceutical purpose has long been the subject of investigation. The aim of this study is to compare the antibacterial potential of *Psidium guajava* leaves extract at three different leaf ages toward Gram-positive and Gram-negative bacteria. Three different leaf ages of *P. guajava* which were young, middle and old were used in this study. The cultured Gram-negative and Gram-positive bacteria then were subjected to antibacterial analysis by disc diffusion method against two types of extracts which were water and ethanol extracts. The result showed that water extract of *P. guajava* at young age had highest mean zones of inhibition with value 22.67 ± 1.53 mm against Gram-negative bacteria. As conclusion, overall the ANOVA result showed that there were significance difference among all *P. guajava* leaves extract against Gram-positive and Gram-negative bacteria because the p value is lower than 0.05.