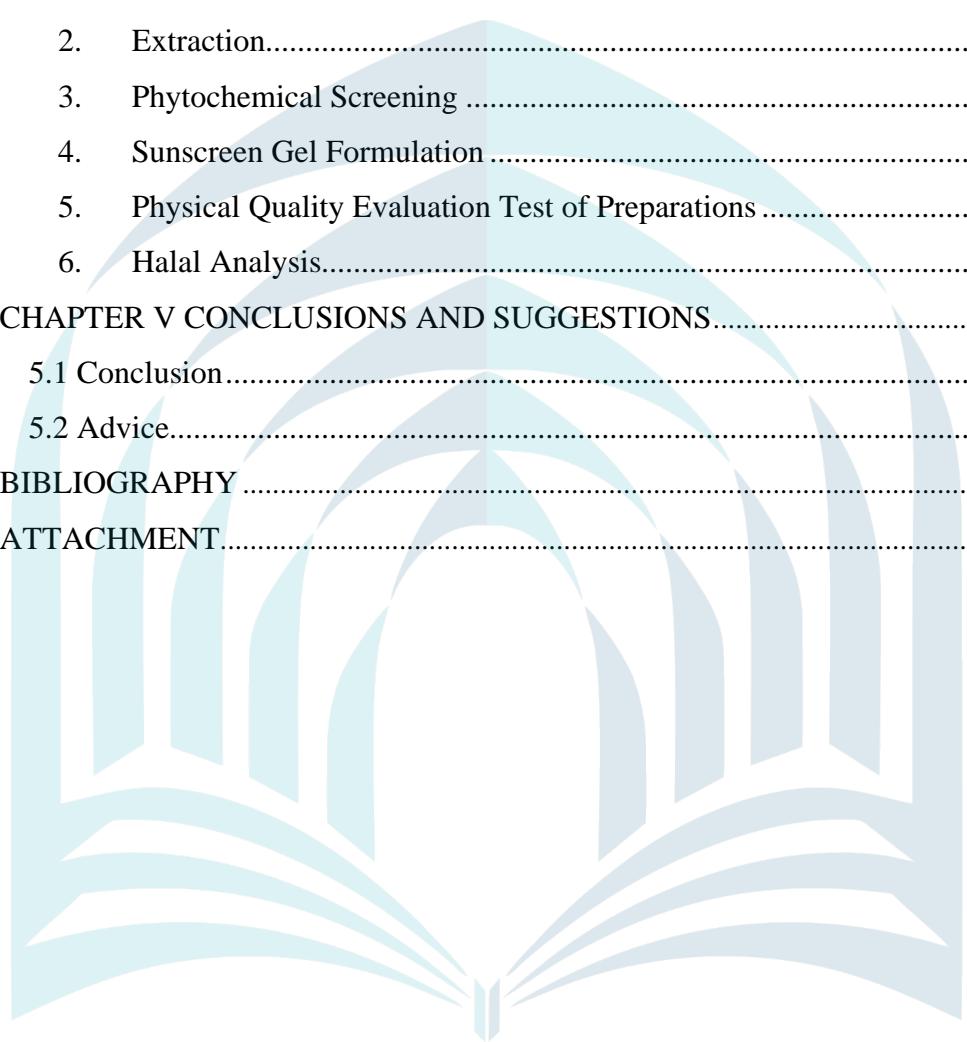


TABLE OF CONTENTS

VALIDITY SHEET	i
ABSTRACT	ii
FOREWORD	iv
AUTHENTICITY STATEMENT	vi
TABLE OF CONTENTS	vii
TABLE LIST	x
IMAGE LIST	xi
CHART LIST	xii
APPENDIX LIST	xiii
CHART LIST	xiv
CHAPTER I INTRODUCTION.....	1
1.1 Background.....	1
1.2 Problem Formulation.....	3
1.3 Research Objectives	3
1.4 Research Benefits	3
1. Theoretical Benefits:.....	3
2. Practical Benefits:.....	3
1.5 Originality of Research.....	3
CHAPTER II LITERATURE REVIEW	5
2.1 Theoretical Foundations	5
1. Green Grasshopper	5
2. Extraction.....	7
3. Sunscreen.....	7
4. Gel	8
5. <i>Sun Protector Factor (SPF)</i>	9
6. Uv-Vis Spectrophotometer	10
2.2 Material Monographs	11
1. HPMC	11
2. Glycerine	12

3.	Propilenglikol	12
4.	Methyl Paraben.....	13
5.	Aqua Destillata	13
	2.3 Halal Product Analysis.....	13
	2.4 Theoretical Framework	14
	2.5 Conceptual Framework	15
	2.6 Hypothesis	15
	CHAPTER III RESEARCH METHODS	16
3.1	Types and Design of Research	16
3.2	Time and Place of Research	16
3.3	Research Variables	16
3.4	Variable Operational Definition	16
3.5	Research Tools and Materials	18
3.6	Research Procedures.....	18
1.	Plant Determination.....	18
2.	Making Green Grasshopper Leaf Extract (<i>Cyclea barbata</i> . Miers)	18
3.	Phytochemical Screening	19
4.	Sunscreen Gel Formulation	19
5.	Physical Quality Test of Preparations	20
6.	SPF Value Determination Test	21
3.7	Data Analysis.....	22
3.8	Halal Product Analysis.....	23
3.9	Research Flow Diagram	23
3.10	Research Schedule.....	23
	CHAPTER IV RESULTS AND DISCUSSION.....	24
4.1	Research Results.....	24
1.	Extraction Results.....	24
2.	Phytochemical Screening Results.....	24
3.	Results of Physical Quality Test of Preparations	24
4.	Halal Analysis Results.....	30
	4.2 Discussion.....	31

1.	Determination	31
2.	Extraction.....	32
3.	Phytochemical Screening	33
4.	Sunscreen Gel Formulation	34
5.	Physical Quality Evaluation Test of Preparations	36
6.	Halal Analysis.....	43
	CHAPTER V CONCLUSIONS AND SUGGESTIONS	46
5.1	Conclusion.....	46
5.2	Advice.....	46
	BIBLIOGRAPHY	47
	ATTACHMENT.....	56



**UNIDA
GONTOR**
UNIVERSITAS DARUSSALAM GONTOR