

TABLE OF CONTENTS

ABSTRACT.....	iv
ABSTRACT.....	v
DECLARATION.....	vi
STATEMENT OF ELIGIBILITY	vii
ACKNOWLEDGMENTS	ix
TABLE OF CONTENTS	xi
LIST OF TABLES	xiii
LIST OF FIGURES	xiii
APPENDIX LIST	xiii
CHAPTER 1	1
1.1 Background	1
1.2 Problem Formulation.....	3
1.3 Research Purpose	3
1.4 Benefits of Research.....	3
1.4. Theoretical Benefits.....	3
1.4. Practical Benefits	3
CHAPTER 2	5
2.1 Previous Research	5
2.2 Theoretical Foundation.....	6
2.2.1.Red Rice Plants	6
2.2.2.Extraction	8
2.2.3.Antioxidants	11
2.2.4.Peel Off Mask.....	13
2.2.5.Formulation of Masks Peel Off.....	14
2.2.6. Test of Mask Preparation Peel Off	18
2.3 Halal Product Analysis	20

2.4 Conceptual Framework	22
CHAPTER 3	23
3.1 Time and Place of Research	23
3.2 Research Tools and Materials.....	23
3.3 Trial Design	23
3.4 Research Procedure	24
3.4.1.Plant Determination.....	24
3.4.2.Making Red Rice Thick Extract.....	24
3.4.3Antioxidant Activity Test Using the DPPH Method	25
3.4.4.Making Red Rice Extract Peel Off Mask.....	26
3.4.5.Evaluation of Prepared Mask	27
3.4.6. Antioxidant Activity Test	28
3.5 Data Analysis.....	29
CHAPTER 4	26
4.1 Results of Antioxidant Activity and Vitamin C.....	31
4.2 Results of the Characteristics of the Test Results of the Peel Off Red Rice Extract Mask	33
4.3 Results of Antioxidant Activity of Mask Peel Off Red Rice Extract	38
4.4 Halal Product Analysis	40
CHAPTER 5	37
5.1 Conclusion.....	45
5.2 Suggestions.....	45
BIBLIOGRAPHY	47
APPENDICES	52

LIST OF TABLES

Table 1. Formulation Design.....	24
Table 2. Data on% inhibition and IC ₅₀ value of red rice extract.	31
Table 3. Data on %Inhibiton and Value IC ₅₀ Vitamin C.....	32
Table 4. Results of Preparation Physical Test Parameters	33
Table 5. Results pH Test Parameters.....	35
Table 6. Result of Drying Time Test.....	36
Table 7. Results of Viscosity Test Parameter	37
Table 8. Results the Spread Power Test Parameter	38
Table 9. Results of IC ₅₀ Value of Mask Peel Off Red Rice Extract	39

LIST OF FIGURES

Figure 1. Red Rice Plants.....	7
Figure 2. Polyvinyl Alcohol.....	14
Figure 3. Hydroxypropyl Methylcellulose.....	15
Figure 4. Propyleneglycol.....	16
Figure 5. Methylparaben.....	16
Figure 6. Propylparaben.....	17
Figure 7. Ethanol.....	17

APPENDIX LIST

Appendix 1. Results of Plant Determination	52
Appendix 2. Calculation of IC ₅₀ values and Vitamin C.....	53
Appendix 3. Calculation IC ₅₀ on Red Rice Extract Peel Off Mask.....	56
Appendix 4. Research Process.....	59