

TABLE OF CONTENTS

COVER.....	i
STATEMENT OF ELIGIBILITY.....	ii
FOR UNDERGRADUATE THESIS EXAMINATION.....	ii
DECLARATION.....	iii
ACKNOWLEDGMENTS.....	v
CONTENTS.....	viii
TABLE OF CONTENT.....	xii
TABLE OF FIGURE.....	xiii
TABLE OF APPENDIX.....	xiv
CHAPTER I INTRODUCTION.....	1
1.1 Background of The Research.....	1
1.2 Statement of The Problem.....	3
1.3 Objective of The Research.....	3
1.4 Benefit of The Research.....	3
1.5 Previous Research.....	4
CHAPTER II LITERATURE REVIEW.....	7
2.1 Theoretical Background.....	7
2.1.1 Brownies.....	7
2.1.2 Mung Bean (<i>Phaseolus Radiatus L</i>).....	9
2.1.3 Honey.....	11
2.1.4 Acceptability.....	12
2.1.5 Fiber.....	13
2.2 Theoretical Framework.....	15
2.3 Conceptual Framework.....	15
2.4 Hypothesis.....	15

CHAPTER III RESEARCH METHODS	17
3.1 Research Design	17
3.2 Time and Place of The Research.....	17
3.3 Research Instrumen	17
3.4 Research Material	18
3.5 Operasional Definition.....	18
3.6 Research Procedure.....	20
3.7 Prosedure for making Brownies	20
3.8 Proximate Test	21
3.8.1 Energy Analysis	21
3.8.2 Water Content Test.....	22
3.8.3 Analysis of Ash Content	22
3.8.4 Analysis of Coaser Fiber.....	22
3.8.5 Analysis of Protein Levels	22
3.8.6 Fat Levels Analysis.....	23
3.8.7 Carbohydrate Analysis.....	23
3.9 Acceptability.....	23
3.10 Hedonic Quality	24
3.11 Data Analysis	25
CHAPTER IV RESULTS AND DISCUSSION	27
4.1 Results of Analysis of Nutrient wheat flour and mung bean brownies	27
4.2 Differences in Wheat Flour Brownies and Mung Bean Brownies	28
4.2.1 Differences of water content	28
4.2.2 Differences of ash content	29
4.2.3 Differences of protein content	29
4.2.4 Differences of fat content	31
4.2.5 Differences of crude fiber	31
4.2.6 Differences of carbohydrate content	32
4.2.7 Differences of energy content	33

4.3	Acceptability Test Results.....	34
4.3.1	Color	35
4.3.2	Taste	37
4.3.3	Aroma	39
4.3.4	Texture	41
4.3.5	Overall	43
4.4	Contribution to Islamization	44
CHAPTER V CONCLUSIONS AND SUGGESTION		47
5.1	Conclusins.....	47
5.2	Suggestion.....	47
REFERENCE.....		48
APPENDIX.....		54

TABLE OF CONTENT

Table 1. Previous Research	4
Table 2. Nutrient Content of Brownies	8
Table 3. Nutrient Component of Mung Bean	10
Table 4. Honey Component	12
Table 5. Research Tools	17
Table 6. Brownies Product Formula	18
Table 7. Operational Definition	18
Table 8. Results Nutrient content of Brownies	27
Table 9 . Acceptability results.....	34
Table 10 . Results hedonic color quality	36
Table 11 . Results hedonic quality brownie taste.....	38
Table 12 . results Test for hedonic aroma brownies.....	40
Table 13 . results test hedonic quality of brownie texture	42

TABLE OF FIGURE

Figure 1. Brownies	7
Figure 2. Mung Bean	9
Figure 3. Honey	11
Figure 4. Theoretical Framework	15
Figure 5. Conceptual Framework.....	15
Figure 6. Research Procedure	20
Figure 7. Flow Chart of Making Mung Bean Brownies	20
Figure 8. Flow Chart of Water Content Analysis.....	60
Figure 9. Flow Chart of Ash Content Analysis	60
Figure 10. Flow Chart of Destruction Stage	61
Figure 11. Flow Chart of Distillation Stage	61
Figure 12. Flow Chart of Titration Stage	61
Figure 13. Flow Chart of The Soxlet Method.....	62
Figure 14. Flow Chart of crude fiber analysis	63
Figure 15. Flow Chart of by Different Method.....	63

TABLE OF APPENDIX

Appendix 1. Laboratory Test Result	54
Appendix 2. Panelist Inform Consent Form	56
Appendix 3. Panelist Willing Form	57
Appendix 4. Organoleptic test Form.....	58
Appendix 5. Acceptability Test Form	59
Appendix 6. Chemical Analysis Methods.....	60
Appendix 7. Statistic Analysis for Macronutrient Content and Hedonic Test	64
Appendix 8. Production of Brownies.....	80
Appendix 9. Organoleptic Test Result of Wheat Flour Brownies	81
Appendix 10. Organoleptic Test Results of Mung Bean Brownies	83