RESEARCH AND DEVELOPMENT FINAL PROJECT

LO'CALOW
(Gluten Free Apple Cookies with Apple Skin Flour)



By Michelle Fiorenza Tambayong 1974130010048

STUDY OF CULINARY ART
OTTIMMO INTERNATIONAL
MASTERGOURMET ACADEMY
SURABAYA
2021

APPROVAL 1

CULINARY INNOVATION AND NEW PRODUCT DEVELOPMENT

PROJECT

Name

: Michelle Fiorenza Tambayong

Place, Date of Birth

: Malang, 30 Januari 2001

N.I.M

: 1974130010048

Study Program

: D3 Seni Kuliner

TITLE

: LO'CALOW (Gluten Free Apple Cookies with

Apple Skin Flour)

This paper is approved by:

Head of Culinary Arts Study Program,

Date:

Advisor,

Date:

(Hilda Tjahjani, S.E., Ak., C.A., M.M.)

NIP. 19691029 2002 072

(Arya Putra Sundjaja, SE)

NIP. 19801017 1703 001

Director of

Akademi Kuliner dan Patiseri OTTIMMO International

Date:

(Zaldy Iskandar, B.Sc)

NIP. 19731025 1201 001

APPROVAL 2

LO'CALOW

(Gluten Free Apple Cookies with Apple Skin Flour)

Culinary Innovation and New Product Development report by :

MICHELLE FIORENZA TAMBAYONG 1974130010048

This report is already presented and pass the exam on :

	Examiners:	
Examiner 1 :		
Examiner 2 :		
Examiner 3:		

PLAGIARISM STATEMENT

I certify that this assignment/report is my own work, based on my personal

study and/or research and that I have acknowledge all material and sources used in

its preparation, whether they be books, articles, reports, lecture notes, and any other

kind of document, electronic or personal communication. I also certify that this

assignment/report has not previously been submitted for assessment in any other

unit, expect where specific permission has been granted from all unit coordinators

involved, or at any other time in this unit, and that I have not copied in part or whole

or otherwise plagiarised the work of other students and/or persons.

On this statement, I am ready to bear the risky/any sanctions imposed to me

in accordance with applicable regulations, if in the future there is a breach of

scientific ethics, or you have a claim against the authenticity of my work.

Date: 7 December 2021

Michelle Fiorenza Tambayong

iii

PREFACE

First of all, I would say the praise and gratitude to God Almighty, for all the graces and blessings that provide health and everything for me to make this culinary Innovation and New Product Development Project can be completed properly in accordance with the planned time. The main objective of this project is to teach Ottimmo students to always be able to think creatively, process unique materials, transform a product into a higher level, to find innovations that have never existed before in Indonesia. One of the reasons why I come up with the idea of making *Lo'calow* because I want to add a variety of healthy gluten free snacks with the main ingredient of apple skin which usually becomes waste and has good benefits for the body.

During this process of completing this report, I received so much guidance and support. By this, I would like to express my gratitude to the names below:

- 1. My parents who have supported and provided me to achieve good education and as a family role to help me in personally.
- 2. Mr. Arya Sudjaja as my RnD mentor who have helped me in so many things in order for me to understand the guideline for making this report.
- 3. Ms. Hilda Tjahjani as the Head of Study Program at Ottimmo International
- 4. Mr. Zaldy Iskandar as the head Director of Ottimmo International.
- 5. My dearest sister, Ms. Rachelle Valerie who help me making the design of the logo and product label.
- 6. My dearest friends, Mrs. Gisela Ayu and Mrs. Fidela Emily who help me by a lot of guidance and looking for all the ingredients.

Date: 7 December 2021

Michelle Fiorenza Tambayong

TABLE OF CONTENT

APPROVAL 1	i
APPROVAL 2	ii
PLAGIARISM STATEMENT	iii
PREFACE	iv
TABLE OF CONTENT	V
LIST OF TABLES	vii
LIST OF PICTURES	vviii
EXECUTIVE SUMMARY	X
CHAPTER 1 INTRODUCTION	1
1.1 BACKGROUND OF THE STUDY	1
1.2 THE OBJECTIVE OF THE STUDY	2
1.3 THE BENEFITS OF THE STUDY	3
CHAPTER 2 INGREDIENTS AND UTENSILS OVERVIEW	4
2.1 DESCRIPTION OF THE MATERIAL TO BE USED	4
2.2 THE TOOLS USED DURING THE PROCESSING	8
CHAPTER 3 NEW PRODUCT PROCESSING SEQUENCE	12
3.1 THE PROCESSING PRODUCT USING PICTURE	12
3.2 COMPLETE RECIPE ATTACHED	18
CHAPTER 4 NEW PRODUCT OVERVIEW	21
4.1 THE FACTS OF NUTRITION	21
CHAPTER 5 BUSINESS PLAN	25
5.1 GENERAL DESCRIPTION OF COMPANY	25
5.2 IDENTIFICATION OF INVESTMENT OPPORTUNITIES	25
5.3 STAKEHOLDER	26
5.4 SWOT ANALYSIS	27
5.5 MARKETING ASPECT	28
5.5.1 Customer Characteristic	28
5.5.2 Market Segmentation	28
5.5.3 Marketing Strategies	29
5.6 FINANCIAL ASPECT	29
5.6.1 Variable Cost	29

5.6.2 Fixed Cost	30
5.6.3 Overhead Cost	31
5.6.4 Cost of Production	31
5.7 TECHNICAL ASPECT	32
5.8 LEGAL ASPECT	32
CHAPTER 6 CONCLUSION	34
6.1 CONCLUSION	34
6.2 SUGGESTION	34
BIBLIOGRAPHY	35
APPENDIX	36
Appendix 1. PACKAGING LABEL	36
Appendix 2. SUPPLIER LIST	36
Appendix 3. PRODUCT LOGO	37

LIST OF TABLES

Table 1. Nutrition	18
Table 2. Variable Cost	24
Table 3. Fixed Cost	25
Table 3. Overhead Cost	26
Table 4 Cost of Production	26

LIST OF PICTURES

Picture 1. Apple Skin Flour
Picture 2. Almond Flour
Picture 3. Honey
Picture 4. Toasted Slice Almond
Picture 5. Raisin
Picture 6. Baking Soda
Picture 7. Salt
Picture 8. Cinnamon Powder6
Picture 9. Apple Sauce
Picture 10. Vanilla Extract
Picture 11. Apple Cuts (Fine Julian)
Picture 12. Gastronom Bowl
Picture 13. Plate
Picture 14. Digital Scale
Picture 15. Grater
Picture 16. Rubber Spatula
Picture 17. Peeler
Picture 18. Knife
Picture 19. Food Dehydrator
Picture 20. Blender
Picture 21. Cooking Tray
Picture 22. Cooling Rack
Picture 23. Oven
Picture 24. Chiller
Picture 25. Apple Skin in Dehydrator
Picture 26. Apple Skin Flour
Picture 27. Mix in Bowl 13

Picture 28. Cookie Dough	
Picture 29. Measure the Cookies	14
Picture 30. Cookies Before Bake	14
Picture 31. Baking Cookies	
Picture 32. Cookies is Ready	
Picture 33. Completed Recipe	
Picture 34. Nutrition Fact	21
Picture 35. Packaging Label	36
Picture 36. Logo	37
Picture 37. Unpacked Product	38
Picture 38. Packed Product	38

EXECUTIVE SUMMARY

These cookies are a premium gluten-free snack made from homemade apple skin flour. The apple skin which is usually wasted, this time I turned it into a delicious and healthy apple cookies. Because I made it gluten free and low sugar. I got this idea because I think in modern times it is still rare to find delicious gluten free cookies and also I see a lot of waste apple skins. I made these cookies with a different texture and aromatic flavor because I used ground cinnamon.

This cookies will be packed in premium plastic jar. Every jar will contain 85 gram of the product and will be sold at IDR25.000. Later, we will develop this cookies into many variation flavor and this cookies can be find at gift stores, supermarkets, restaurants, or can be order through our website and social media.