# CULINARY INNOVATION AND NEW PRODUCT DEVELOPMENT REPORT

# "UTILIZATION OF BANANA STEMS (GEDEBOG BANANA) AS A SUBSTITUTE FOR FISH IN ODENG"



# ARRANGED BY WILLCENT TWINATMAJA HARTANTO 2274130010006

CULINARY ARTS STUDY PROGRAM
OTTIMMO INTERNATIONAL
MASTERGOURMET ACADEMY
SURABAYA
2024

#### PLAGIARISM STATEMENT

I certify that this assignment is my own work, based on my personal study and research and that I have acknowledged 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, except 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 plagiarized the work of other students and/or persons.

On this statement, I am ready to bear the risk/any sanctions imposed to me in accordance with applicable regulations, if in the future there is a breach of scientist fic ethics, or you have a claim against the authenticity of my work.

Surabaya, August 14th, 2024

METERN 1 — TEMPEL X140527549

Willcent Twinatmaja Hartanto

#### **APPROVAL 1**

### CULINARY INNOVATION AND NEW PRODUCT DEVELOPMENT PROJECT

Name : Willcent Twinatmaja Hartanto

Place, Date of Birth : Surabaya, March 30th 2004

NIM : 2274130010006

Study Program : D3 Culinary Art

TITLE : UTILIZATION OF BANANA STEMS

(GEDEBOG BANANA) AS A SUBSTITUTE

FOR FISH IN ODENG

#### This paper has been approved by:

Head of Culinary Arts Study Program, August, 2024

Advisor,

August, 2024

dhianata, S.TP., M.Sc

19900613 1402 016

Elma Sulistiya, S.TP., M.Sc

NIP. 19970916 2302 087

Director of

Ottimmo International Master Gourmet Academy

ndar, B.Sc

P. 19731025 1201 001

#### **APPROVAL 2**

# "UTILIZATION OF BANANA STEMS (GEDEBOG BANANA) AS A SUBSTITUTE FOR FISH IN ODENG"

Culinary Innovation and New Product Development report by:

#### WILLCENT TWINATMAJA HARTANTO

#### 2274130010006

This report is already presented and pass the exam on:
(August, 2024)

#### This paper has been approved by:

Advisor : Elma Sulistiya, S.TP., M.Sc

1st Examiner: Ryan Yeremia Iskandar, S.S.

2<sup>nd</sup> Examiner: Arya Putra Sundjaja, S.E.

#### **PREFACE**

Praise be to God Almighty because on this occasion I was able to complete this report. Completion of this report intended to fulfill the requirements for participating in an internship.

I also take this opportunity to express my gratitude to:

- Zaldy Iskandar, B. Sc as director of Ottimmo International Culinary Art and Patisserie Academy.
- 2. Elma Sulistiya, S.TP., M.Sc as advisor.
- 3. Heni Adhianata, S.TP., M.Sc as head of Culinary art study program.
- 4. My parents who always support and help me in personally and providing moral & material support for me.
- My friend who has supported the progress of this report from beginning to end.

That is all I can say, I apologize if there are errors or inconsistence in the use of words or sentences. Hopefully, the following report is helpful for the readers. Thank you.

Surabaya, August 14th, 2024

Willcent Twinatmaja Hartanto

#### **ABSTRACT**

The K-pop and K-Drama trend is a factor that makes South Korean food increasingly popular with all levels of Indonesian society and even people around the world. Odeng is a type of fish cake that originates from Korea. Odeng is a processed product from ground fish. However, vegan and vegetarian lifestyles are currently increasingly popular in the world, including Indonesia. Therefore, this study aims to make vegan odeng made from banana stems, which are a part of the banana plant that is underused in society. Apart from making products for vegan groups, this study also aims to reduce waste so that air pollution does not occur. The result of the study showed that Mungbang has good smell and taste, panelists only complained about odeng being oily and the color being too brown when fried. The nutrition value of Mungbang stated that it has 180 kCal/serving with a serving size of 62.5 grams. In addition, the selling price of Mungbang is Rp. 37,000/pack.

**Keywords:** Banana stems, Odeng, Vegan

## TABLE OF CONTENT

Plagiarism Statement	ii
Approval 1	iii
Approval 2	iii
Preface	v
Abstract	vi
Table Of Content	vii
Table Of Figures	ix
List Of Tables	X
Chapter I Introduction	1
1.1 Background of the Study	1
1.2 Objectives of the Study	3
Chapter II Literature Review	4
2.1 Ingredients Review	4
2.1.1 Banana Stems	4
2.1.2 Mung Beans Flour	6
2.2 Product Review	7
2.3 Process Review	7
2.3.1 Boiling	7
2.3.2 Steaming	8
2.3.3 Frying	9
Chapter III Methods	
3.1 Time and Place	
3.2 Ingredients and Utensils	
3.2.1 Ingredients	

3.2.2 Utensils	11
3.3 Processing Methods	11
3.4 Flow Chart	13
Chapter IV Result And Discussion	14
4.1 Product Result	14
4.2 Nutrition Fact	15
4.2.1 Nutrition Table	15
4.2.2 Nutrition Calculation	16
4.2.3 Nutrition Label	17
4.3 Food Safety and Packaging	17
4.3.1 Processing and Storage Temperature	17
4.3.2 Shelf Life	18
4.3.3 Product Packaging	19
4.4 Financial Aspects	21
4.4.1 Product Cost	21
4.4.2 Selling Price	22
Chapter V Conclusion And Suggestion	23
5.1 Conclusion	23
5.2 Suggestions	23
Bibliography	

# Appendix

## LIST OF FIGURES

Figure 2.1 Banana Stems	4
Figure 2.2 Mung Bean Flour	
Figure 3.1 Flow Chart Vegan Odeng	
Figure 4.1 Mungbang Odeng	
Figure 4.2 Nutrition Label	
Figure 4.3 Mica Tray	
Figure 4.4 Vacuum Embossed Plastic	
Figure 4.5 Logo	

## LIST OF TABLES

Table 2.1 Nutrional Content of Banana Stems in Raw Condition	5
Table 3.1 Ingredients for Odeng	10
Table 3.2 Utensils for Odeng	
Table 4.1 Nutritional Value of Banana Stems per 100g	
Table 4.2 Nutritional Value of Mung Beans Flour per 100g	
Table 4.3 Nutritional Value of Tapioca Starch per 100g	16
Table 4.4 Nutritional Value of Tofu Skin per 100g	
Table 4.5 Nutritional Value of Ingredients Used in The Recipe for Banana Ster	
	16
Table 4.6 Cost of Ingredients	21
Table 4.7 Packaging Cost	