

RESEARCH AND DEVELOPMENT FINAL PROJECT
VEGAN FERMENTED MAYO
(Vegan Fermented Mayo Made from Tempeh)



By:
FEODORA CLARISSIA LAKSMONO
2074130010001

STUDY PROGRAM OF CULINARY ART
OTTIMMO INTERNATIONAL
MASTERGOURMET ACADEMY
SURABAYA
2022

PLAGIARISM STATEMENT

I certify that this assignment/report is my own work, based on my personal study and/or 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 or 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 scientific ethics, or you have a claim against the authenticity of my work.

Surabaya, 19 October 2022



APPROVAL 1

CULINARY INNOVATION AND NEW PRODUCT DEVELOPMENT PROJECT

Name : Feodora Clarissia Laksmono
Place, Date of Birth : Surabaya, 22 Agustus 2022
NIM : 2074130010001
Study Program : D3 Seni Kuliner
Title : Vegan Fermented Mayo

This paper is approved by:

Head of Culinary Arts Study Program,
Date: 19 October 2022

Advisor,
Date: 19 October 2022

Hilda Tjahjani I, S.E., Ak., C.A., M.M.
NIP. 19691029 2002 072

Heni Adhianata, S.T.P., M.Sc
NIP. 19900613 1402 016

Director of
Akademi Kuliner dan Patiseri OTTIMMO Internasional



APPROVAL 2

VEGAN FERMENTED MAYO

Culinary Innovation and New Product Development Report by:

FEODORA CLARISSIA LAKSMONO

2074130010001

This report is already presented and

Pass the exam on:

(25 October 2022)

Examiners:

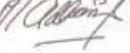
Examiner 1 : Dahlia Elianari, S.T.P., M.Sc.


.....

Examiner 2 : Arya Putra Sundjaja, S.E.


.....

Examiner 3 : Heni Adhianata, S.T.P., M.Sc.


.....

PREFACE

As for the beginning, the author would like to thank to God, Jesus Christ for His blessings and spiritual guidance in order for me to complete this Research and Development report. The main purpose of this report is to help each student in Ottimmo to be creative and innovative as we have to create a new product that never been in Indonesia. One of the reasons why the author came up with the idea of making Vegan Mayonnaise using Tempe is because the author want to create new vegan friendly mayonnaise with new ingredients and contains more nutrients and also have many benefits inside the product.

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

1. Mr. Zaldy Iskandar as the Director of Ottimmo International.
2. Ms. Hilda Tijahjani Iskandar as the Head of Study Program at Ottimmo International.
3. Ms. Heni Adhinata as my RnD mentor who have helped me in so many things in order for me to understand the guidelines for making this report.
4. My parents who have supported and provided me to achieve good education and as a family role to help me in personally.

Surabaya, 19 October 2022



Feodora Charissa L.

TABLE OF CONTENT

PLAGIARISM STATEMENT.....	I
APPROVAL 1.....	II
APPROVAL 2.....	III
PREFACE	IV
TABLE OF CONTENT.....	V
LIST OF FIGURE	VII
LIST OF TABLE	VIII
EXECUTIVE SUMMARY.....	IX
CHAPTER 1	1
INTRODUCTION	1
 1.1 BACKGROUND OF THE STUDY	1
 1.2 THE OBJECTIVE OF THE STUDY	2
CHAPTER 2	3
PRODUCT OVERVIEW	3
 2.1 DESCRIPTION OF THE INGREDIENTS TO BE USED.....	3
 2.2 THE TOOLS USED DURING THE PROCESSING	4
 2.3 THE PROCESSING PRODUCT USING PICTURE	6
 2.4 REVISED RECIPE.....	12
 2.5 PRODUCT PROCESSING USING SEQUENCE	14
CHAPTER 3	15
NEW PRODUCT OVERVIEW	15
 3.1 THE FACTS OF NUTRITION	15
 3.1.1 Nutrition facts of tempeh.....	15
 3.1.2 Nutrition facts of soya oil.....	16
 3.1.3 Nutrition facts of salt.....	16
 3.1.4 Nutrition facts of lemon juice	17
 3.1.5 Nutrition facts of sugar syrup	17
 3.1.6 Nutrition facts of soya lecithin	18
 3.1.7 Nutrition facts of water	18
 3.2 NUTRITION IN VEGAN FERMENTED MAYONNAISE	19
 3.3 NUTRITIONAL VALUE PER RECIPE.....	19
 3.4 TOTAL NUTRITIONAL VALUE PER RECIPE	21
 3.5 CALORIES PER RECIPE	21

3.6 NUTRITION FACTS LABEL PRODUCT	22
3.7 FOOD SAFETY	22
3.7.1 Processing and storage temperature.....	22
3.7.2 Product shelf life	22
3.7.3 Product packaging.....	23
CHAPTER 4	24
FINANCIAL ASPECT	24
 4.1 GENERAL DESCRIPTION OF COMPANY.....	24
4.1.1 Vision	24
4.1.2 Mission	24
 4.2 SWOT ANALYSIS	25
 4.3 4P	25
 4.4 FINANSIAL ASPECTS.....	26
4.4.1 Variable cost	26
4.4.2 Fixed cost.....	27
4.4.3 Overhead cost	27
4.4.4 Start up cost	27
4.4.5 Cost of production.....	28
 5.1 GENERAL SUMMARY.....	29
 5.2 SUGGESTION.....	29
 5.3 THE BENEFITS OF THE STUDY	29
BIBLIOGRAPHY	30

LIST OF FIGURE

Picture 1. The material for for the mayonnaise.....	3
Picture 2. The tools used during the processing of making Tempeh	4
Picture 3. The tools used during the processing of making mayonnaise	5
Picture 4. 300gr soybean.....	6
Picture 5. Soak soybean and cover the lid	6
Picture 6. Soaked soybean and strain.....	7
Picture 7. Boiling water and put the soybean in and boil it	7
Picture 8. Separate the outer skin and strain it	8
Picture 9. Boiling water and add the soybean	8
Picture 10. Strain the cooked soybean and let it cool	9
Picture 11. Add ragi tempeh into the cooked soybean	9
Picture 12. Soybean added in plastic and sealed.....	10
Picture 13. Tempeh	10
Picture 14. Cut tempe and add to blender	11
Picture 15. Blend the tempeh until become pure	11
Picture 16. Emulsifyng process using hand blender	12
Picture 17. Tempeh nutrition fact	15
Picture 18. Soya oil nutrition fact	16
Picture 19. Salt nutrition facts.....	16
Picture 20. Lemon juice nutrition facts.....	17
Picture 21. Sugar syrup nutrition facts.....	17
Picture 22. Soya lecithin nutrition facts	18
Picture 23. Water nutrition facts	18
Picture 24. Nutrition facts label	22
Picture 25. Product packaging	23

LIST OF TABLE

Tabel 1. Nutrition in vegan fermented mayonnaise	19
Tabel 2. Variable cost	26
Tabel 3. Fixed cost.....	27
Tabel 4. Overhead cost	27
Tabel 5. Start up cost	27
Tabel 6. Cost of production	28

EXECUTIVE SUMMARY

A Vegan Fermented Mayonnaise is a Mayonnaise has contain high enough probiotics and protein then other vegan mayonnaise because it is using local ingredients from Indonesia, namely tempeh. The author personally came up with this idea because the author see how to make mayonnaise out there using eggs as a main ingredients or most of vegan mayonnaise using nuts milk and did not have probiotics contain in their product so the author decided to make this Vegan Mayonnaise using Tempeh as a main ingredients. This Vegan Fermented Mayonnaise not only have different main ingredients, but also give extra great nutrients while consuming this Mayonnaise. This mayonnaise can not have texture as smooth as usual mayonnaise out there but the author guarantee this mayonnaise is can help vegan people who do not eat dairy products so that they can still eat mayonnaise.

This Vegan Fermented Mayonnaise will be packaged in small pack. Each pack will contain 100grams of Vegan Fermented Mayonnaise and will be sold for Rp. 21.900 / pack. Later this product can be found in supermarkets out there or can be ordered directly from our personal social media.

Keywords: *Mayonnaise, Vegan, Tempeh, Probiotics.*