RESEARCH AND DEVELOPMENT FINAL PROJECT "MORINGA SPREAD (LOW CALORIES AND HIGH IN PROTEIN)"



By FEBRINA ALBIONITA TJANDRA WIJAYA 1774130010076

CULINARY ARTS STUDY PROGRAM OTTIMMO INTERNATIONAL MASTERGOURMET ACADEMY SURABAYA

2019

RESEARCH AND DEVELOPMENT FINAL PROJECT

"MORINGA SPREAD (LOW CALORIES AND HIGH IN PROTEIN)"

Arranged By: FEBRINA ALBIONITA TJANDRA WIJAYA 1774130010076

Surabaya, 27 August 2019

Approved by,

Advisor,

Examiner I,

Arya Putra Sunjaya, S.E., BBA

Dr. Ir. Fadjar Kurnia Hartati, M.P

Examiner II,

Chef Albert Aldo Kurniawan

Examiner III)

Chef Ryan Yeremia Iskandar

Knowing,

Director of OTTIMMO International Mastergourmet Academy,

Head of Study Program Culinary Arts, OTTIMMO International Mastergourmet Academy,

Zaldy Islandar, B.SC. NIP: 197310251201001

Irra Chrisyanti DEWI, S. PD.,M.S.M NIP: 197812011702028

ACKNOWLEDGMENT

Praise and thanks to God Almighty for the successful completion of this report. The author can complete the writing of Research and Development Final Project Entitled" **Moringa Spread (Low Calories and High in Protein)**" This report is prepared as one of the requirements to complete the Diploma III of Culinary Arts.

In the process of completion of this report, the Author has received much guidance and assistance from various parties. To that end, the authors express their sincere thanks to:

- 1. My parents who always support me whatever I do, provided me a good education and always give strength to achieve my goals.
- 2. Mr Arya Sunjaya Putra as Advisor who has guided, provide guidance and suggestions until the completion of this report.
- 3. Mr Zaldy Iskandar as Director of OTTIMMO International MasterGourmet Academy Surabaya.
- 4. Miss Irra Chrisyanti Dewias Head of the Culinary Arts Study Programme.
- 5. Last, I want to thank you to all of my friends who give already help me until now.

Finally, the Authors hope that this report can be useful for us all.

Surabaya, 28th August, 2019

Febrina Albionita

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 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 plagiarised 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, 28th August, 2019

METERAI TEMPEL

Febrina Albionita

Executive Summary

Nowadays, Moringa Oleifera being called the new superfood. This leaves is a nutrient-rich tree, is known to ancient cultures as the "tree of life" and "miracle tree" due to its impressive nutritional profile and long list of medicinal benefits. All parts of the tree are safe for consumption, but the leaf is most commonly used. The leaves of the tree are harvested, dried up and then crushed. The final product is a powder similar in taste to matcha (Roasted green tea) with a little bit bitter taste at the end. It and can be enjoyed in the form of tea, powder, or capsule. Moringa oleifera is loaded with nutrients which produce an abundance of powerful health benefits. This super-green has an impressive nutritional profile, is more nutrient dense than kale and blows goji berries away with its antioxidant levels. In a gram per gram comparison, moringa oleifera contains seven times as much vitamin C as an orange, four times as much calcium as milk, three times as much potassium as a banana, and three times as much iron as spinach. The leaves also contain all 9 of the essential amino acids, and are considered a complete protein.

Keywords: Moringa, Spread, Almond, Soy Milk, Erythritol (Sugar Alcohol)

TABLE OF CONTENTS

	i
APPROVAL	ii
ACKNOWLEDGMENT	iii
PLAGIARISM STATEMENT	iv
EXECUTIVE SUMMARY	V
TABLE OF CONTENTS	vi
LIST OF TABLE	vii
LIST OF PICTURE	1
CHAPTER I INTRODUCTION	1
1.1 Background	2
1.2 Objective	_
CHAPTER II INGREDIENTS	3
2.1 Description Of The Material To Be Used	3
CHAPTER III NEW PRODUCT PROCESSING SEQUENCE	12
3.1 Utensils Overview	12
3.2 The Processing Product By Using Flowchart	16
3.3 Complete Recipe Attached	17
CHAPTER IV NEW PRODUCT OVERVIEW	18
4.1 The Facts of Nutrition	18
4.2 New Product Characteristic	18
4.3 Product Shelf Life	19
CHAPTER V BUSINESS PLAN	20
5.1 Identification of Investment Opportunities	20
5.2 Marketing Aspect	21
5.3 Technical Aspect	21
5.4 Financial Aspect	22
CHAPTER VI CONCLUSION	26
6.1 Conclusion	26
6.2 Suggestion	26
PREFERENCES	28
APPENDIX	30