RESEARCH AND DEVELOPMENT FINAL PROJECT

(Fishbone Red Rice Noodle with Healthy Benefits)



By Gracia Vicentia Tandiarta 1774130010079

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"FISHBONE RED RICE NOODLE"

Arranged by:

Gracia Vicentia Tandiarta (1774130010079)

Surabaya, 9th September 2019

Approved by:

Chef Arya Putra Sundjaja, S.E	
Ir. Thomas Indarto Putut Suseno. MP	
Chef Sagita Asih Aldris	
Chef Gilbert Yanuar	

Knowing,

Director of Akademi Kuliner dan Patiseri Ottimmo Internasional Head of Study Program of Akademi Kuliner dan Patiseri Ottimmo Inteternasional

Zaldy Iskandar, B.SC

Irra Chrisyanti Dewi, S. Pd .M. S. M

NIP. 197310251201001

NIP. 1978120011702028

PREFACE

As for the beginning, I would like to thank my Holy God, Jesus Christ for his blessings and spiritual guidance in order for me to complete this Research and Development report. New products and new business development require innovative, creative marketing solutions in order to successfully differentiate them from competing products in the marketplace. This important research and development report explore and elucidate the essence of creativity, with an emphasis on how to proceed with R&D activities strategically and how to connect them with successful products, services and commercialization.

One of the reasons why I come up with the idea of making "Fishbone Red Rice Noodle" is because I want to create a healthier alternative consumption which can be very benefitial to human's health condition. During this process of completing this report, I received so much guidance and support. By this, I would like to express my gratitute 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 Putra Sunjaya as my R&D mentor who have helped me in many things in order for me to understand the guideline for making this report.
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Surabaya, August 7th 2019

Gracia Vicentia Tandiarta

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 July 2019

Gracia Vicentia Tandiarta

EXECUTIVE SUMMARY

Now a days the problem of nutriotion of food we consume is become a

serious problem in Indonesia for last few years. Nutrient intake has an important

role in the problem food ad nutrition is "calcium". Lack of calcium intake can causes

Osteoporosis, Osteoporosis is a disease in which the density and quality of bone are

reduced. As bones become more porous and fragile, the risk of fracture is greatly

increased. The loss of bone occurs silently and progressively.

The high risk of Osteoporosis in Indonesia is caused by low amount of

calsium consumption. People only consume 254 mg/ day. The average adequacy

value of calcium in a day for baby is 300-400mg, 500 mg for children, 600-700 mg

for adolescents, and 500-800 mg for adults. Calcium is very important for our bone

and tooth growth so that the calcium intake needs to be considered from infancy

until the need for bone growth is fulfilled.

The sources of calcium can be obtained from milk, cheese, and fish. Calcium

in not only in fish meat but also in the fish bones. Nutritional content of bones fish

in 100 gr of bonemeal fish is 735mg of calcium. The bones fish contain high

calcium that have potential as ingredients calcium food sources that are easily

affordable and can be alternative diet to prevent diseases due to calcium deficiency,

The fish bone will be processed as fishbone flour to substitute general flour

which is can be used in making our product, noodle. Also in our product we use red

rice because it is known that it contains low calorie.

Keyword: (fishbone, red, rice)

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