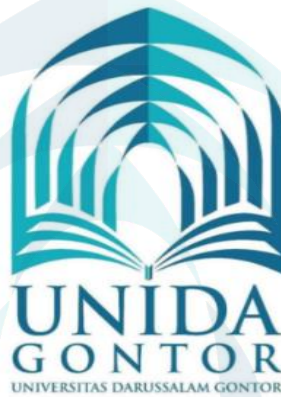


THESIS

ANALYSIS OF PROTEIN CONTENT, FIBER CONTENT AND ORGANOLEPTIC TEST ON SUBSTITUTION BISCUITS TEMPEH FLOUR AND GEMBILI FLOUR (As A Healthy Snack For Elementary School Children)



Written by :

Iftinan Kualifah Nur Azizah

NIM. 422021728017

**NUTRITION SCIENCE DEPARTMENT
FACULTY OF HEALTH SCIENCE
UNIVERSITAS DARUSSALAM GONTOR
PONOROGO
2025**

APPROVAL SHEET

APPROVAL SHEET THESIS DEFENCE

It is hereby stated that the thesis with the title:

**ANALYSIS OF PROTEIN CONTENT, FIBER CONTENT
AND ORGANOLEPTIC TEST ON SUBSTITUTION BISCUITS
TEMPEH FLOUR AND GEMBILI FLOUR
(As A Healthy Snack For Elementary School Children))**

Written by:

**Iftinan Muallifah Nur Azizah
422021728017**

It has been reviewed and recommended to meet scientific standards, in terms of
both scope and quality.

It has been approved to presented on: Saturday, 22 of February 2025

Supervisor I

Lulu' Luthfiya, S.Gz., M.P.H
NIDN. 0718019203



Supervisor II

Qothrunnadaa Fajr Rooiqoh, S.Tr. Gz. M.Gz



Head of Nutrition Science Department
Faculty of Health Science
Universitas Darussalam Gontor



Lulu' Luthfiya, S.Gz., M.P.H
NIDN. 0718019203



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VALIDITY SHEET

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Written by:

**Iftinan Muallifah Nur Azizah
422021728017**

Has been tested and approved & before the Thesis Examiner Board

On : Saturday, 22 of February 2025

Examiner Board

Supervisor I

Lulu' Luthfiya, S.Gz., M.P.H
NIDN. 0718019203

Supervisor II

Qothrunnadaa Fajr Rootqoh, S.Tr. Gz. M.Gz

Examiner

Amilia Yuni Damayanti, S.Gz., M.Gizi
NIDN. 0722078904

Approved by,

Head of Nutrition Science Department
Faculty of Health Science
Universitas Darussalam Gontor

Lulu' Luthfiya, S.Gz., M.P.H
NIDN. 0718019203

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ABSTRACT

ANALYSIS OF PROTEIN CONTENT, FIBER CONTENT AND ORGANOLEPTIC TEST ON SUBSTITUTION BISCUITS TEMPEH FLOUR AND GEMBILI FLOUR (As a Healthy Snack For Elementary School Children)

**Iftinan Mualifah Nur Azizah
NIM. 422021728017**

Unhealthy eating habits are one of the problems of elementary school children. Foods commonly consumed by school-age children are low in protein and fiber. Lack of protein and fiber intake can lead to stunted growth and nutritional problems in children. Tempeh and gembili tubers are good and readily available sources of protein and fiber. This study aimed to determine the effect of adding tempeh flour and gembili flour on protein and fiber content and organoleptic evaluation of cookies. The method used was a completely randomized design (CRD) with three treatments and one control, the ratio of tempeh flour: to gembili flour was 70:30 (F1), 60:40 (F2), and 50:50 (F3). Analysis of protein content using the Kjeldahl method, and fiber content using the gravimetric method. The results of the data analysis of protein and fiber content were tested using one-way ANOVA with post hoc further Duncan. Organoleptic test using semi-trained panelists and children panel. Organoleptic data analysis using Kruskal-Wallis. The results showed significant differences in the protein and fiber content of biscuits. The highest protein content value in F1 was 10.35%, while the highest fiber content value in F3 was 9.27%. Meanwhile, the organoleptic test results showed that the best treatment was F3, with the highest value in the aroma parameter of 83% and taste of 60%. The research concludes that each formulation has a significant difference in protein and fiber content. The best formulation was F3, which had the highest level of panelists' liking for aroma and taste, but it was not acceptable to children panel.

Key Words: Fiber Content, Gembili Flour, Protein Content, Tempeh Flour,

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The author realizes that this writing is far from perfect. Therefore, the author is open to all suggestions and criticism so that this thesis can benefit us all.

Ngawi, 22 February 2025

Author



STATEMENT OF RESEARCH AUTHENTICITY

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Hereby,

Name : Ifinan Muallifah Nur Azizah

Student Identification : 422021728017

Number

Faculty : Ilmu Kesehatan

Study Program : Ilmu Gizi

Research Title : Analysis Of Protein Content, Fiber Content
And Organoleptic Test On Substitution Biscuits
Tempeh Flour And Gembili Flour (As A
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I hereby declare that this thesis is my original work and is not based on copies or the research results of others.. This work has never been submitted to any university for a degree. In addition, this work has not been previously published, except for references that have been included in this manuscript and listed in the bibliography. I understand that if in the future it is proven that this thesis contains elements of plagiarism, I am willing to accept academic sanctions by applicable regulations. I make this statement truthfully and without pressure from any party.

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Researcher,



Ifinan Muallifah Nur Azizah
NIM. 422021728017

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