

THESIS

**DEVELOPMENT OF ULTRASOUND-ASSISTED PHYTOCHEMICAL
EXTRACTION AS AN ANALYTICAL METHOD TO EVALUATE THE
DRYING TECHNIQUE OF TORCH GINGER (*Etlingera elatior* (Jack) R.M.
Sm) FLOWER**



**Arranged by:
Amila Firdhauzi
22/495757/PTP/01919**

**FOOD SCIENCE AND TECHNOLOGY STUDY PROGRAM
FACULTY OF AGRICULTURAL TECHNOLOGY
GADJAH MADA UNIVERSITY
YOGYAKARTA**

2024

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**To fulfill the requirements for
Master Degree (S2)
of Food Science and Technology Program
Faculty of Agricultural Technology**



Arranged by:

Amila Firdhauzi

22/495757/PTP/01919

**GRADUATE PROGRAM
FACULTY OF AGRICULTURAL TECHNOLOGY
GADJAH MADA UNIVERSITY
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THESIS

Development of Ultrasound-Assisted Phytochemical Extraction as An Analytical Method to Evaluate the Drying Technique of Torch Ginger (*Etlingera Elatior* (Jack) R.M. Sm) Flower

Presented and compiled by:

Amila Firdhauzi
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Presented in front of the examiners
On 27 May 2024

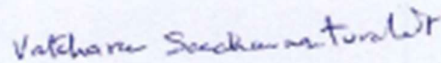
Board of Examiners

Thesis Supervisor



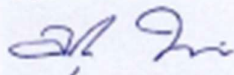
Dr. Widiastuti Setyaningsih S.T.P., M.Sc

Thesis Co-supervisor 1



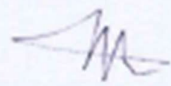
Asst. Prof. Dr. Vatcharee Seechamnaturakit

Thesis Co-supervisor 2



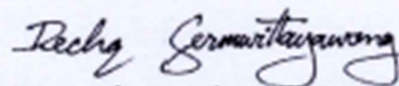
Asst. Prof. Dr. Chutha Takahashi Yupanqui

Examiner I



Dr. Manikharda, S.T.P., M.Agr.

Examiner II



Assoc. Prof. Dr. Decha Sermwittayawong

This thesis has been accepted as a requirement
for completing a master's degree
in Food Science and Technology Study Program

25 JUN 2024

Date:

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Dean




Prof. Dr. Ir. Eni Harmayani, M.Sc.

