

**THESIS**

**AUTHENTICATION OF INDONESIAN MACROALGAE  
BASED ON VIS-NIR SPECTROSCOPY DATA COMBINED  
WITH CHEMOMETRICS**



**FRYSYE GUMANSALANGI**  
**20/470172/PTP/01800**

**FOOD SCIENCE AND TECHNOLOGY STUDY PROGRAM  
DEPARTMENT OF FOOD AND AGRICULTURAL PRODUCT TECHNOLOGY  
FACULTY OF AGRICULTURAL TECHNOLOGY  
UNIVERSITAS GADJAH MADA**

**2022**

## **THESIS**

### **AUTHENTICATION OF INDONESIAN MACROALGAE BASED ON VIS-NIR SPECTROSCOPY DATA COMBINED WITH CHEMOMETRICS**

As a Requirement for Completing a Master's Degree  
Food Science and Technology Study Program  
Department of Food and Agricultural Product Technology



**Submitted By:**

**FRYSYE GUMANSALANGI**  
**20/470172/PTP/01800**

**GRADUATE PROGRAM**  
**FACULTY OF AGRICULTURAL TECHNOLOGY**  
**UNIVERSITAS GADJAH MADA**  
**YOGYAKARTA**

**2022**