

**UNDERGRADUATE THESIS**

**OCCURRENCE OF FLUOROQUINOLONE RESISTANCE GENES  
AMONG *E. coli* ISOLATES COLLECTED FROM AKAGAWA WATER  
SYSTEM IN YAMAGATA, JAPAN**



**Arranged by:**

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**DEPARTMENT OF FOOD AND AGRICULTURAL PRODUCT  
TECHNOLOGY**

**FACULTY OF AGRICULTURAL TECHNOLOGY**

**GADJAH MADA UNIVERSITY**

**YOGYAKARTA**

**2023**



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Angeline Odilia, Dr. Ir. Muhammad Nur Cahyanto, M.Sc.; Prof. Toru Watanabe  
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**Undergraduate Thesis**

**Department of Food and Agricultural Product Technology**

**Submitted to**

**Faculty of Agricultural Technology Gadjah Mada University**

**as a partial fulfillment of the requirements for**

**a bachelor's degree in Agricultural Technology**

**at the Department of Food and Agricultural Products Technology**

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This undergraduate thesis paper has been approved and examined as a partial fulfillment of the requirements for a bachelor's degree from the Department of Food and Agricultural Product Technology, Faculty of Agricultural Technology, Gadjah Mada University

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