

**PENGARUH PROBIOTIK PADA SUBSTRAT PRODUKSI
MAGGOT *Black Soldier Fly* (*Hermetia illucens*) SEBAGAI
PAKAN TERHADAP SINTASAN, PERTUMBUHAN, PROFIL
DARAH dan MIKROBIOMA *INTESTINE* LELE (*Clarias sp.*)**

Tesis

Untuk memenuhi sebagai persyaratan mencapai derajat master
Program Studi Magister Ilmu Perikanan



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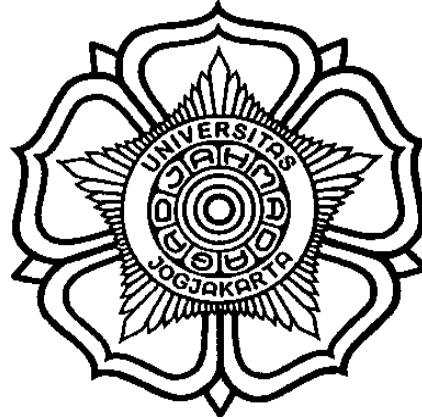
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PROGRAM PASCASARJANA
FAKULTAS PERTANIAN
UNIVERSITAS GADJAH MADA
YOGYAKARTA
2025

**THE INFLUENCE OF PROBIOTICS ON THE SUBSTRATE FOR
BLACK SOLDIER FLY (*Hermetia illucens*) PRODUCTION AS
FEED ON SURVIVAL RATE, GROWTH, BLOOD PROFILE, AND
INTESTINAL MICROBIOME OF CATFISH (*Clarias sp.*)**

Thesis
Submitted to
Study Program of Fisheries Science
for Degree of master



Submitted by
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POSTGRADUATE PROGRAM
FACULTY OF AGRICULTURE
UNIVERSITAS GADJAH MADA
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Tesis

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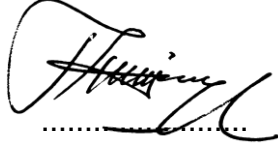
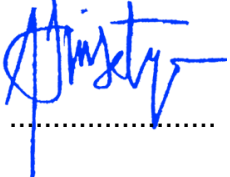
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Thesis

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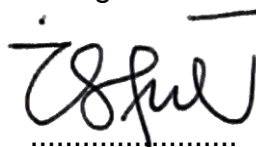
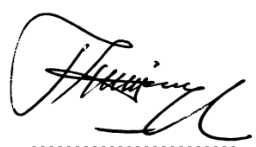
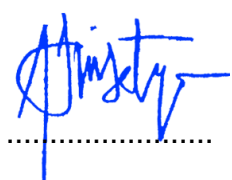
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This thesis was declared acceptable in partial fulfillment of the requirement for the master degree in Fisheries Science on February 21th 2025

Approved by,
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