

**POTENSI EKSTRAK MAKROALGA COKLAT
(*Sargassum ilicifolium* (Turner) C. Agardh)
TERHADAP KUALITAS DAN LEVEL
PROTEIN PROTAMIN-1 (PRM1)
PADA SEMEN BEKU
SAPI SIMMENTAL**

Tesis

Untuk memenuhi sebagian persyaratan
Mencapai derajat strata S-2
Program Studi Magister Sain Veteriner
Fakultas Kedokteran Hewan UGM Yogyakarta



diajukan oleh
Crista Damaris
23/527487/PKH/00853

kepada
PROGRAM STUDI MAGISTER SAIN VETERINER
FAKULTAS KEDOKTERAN HEWAN
UNIVERSITAS GADJAH MADA
YOGYAKARTA
2025

**POTENTIAL OF BROWN MACROALGAE EXTRACT (*SARGASSUM
ILICIFOLIUM* (TURNER) C. AGARDH) ON QUALITY AND
PROTAMINE-1 (PRM1) PROTEIN LEVEL OF
SIMMENTAL BULL FROZEN SEMEN**

Thesis

To fulfill part of the requirements
for obtaining a Master's degree
Master of Veterinary Science Programe
Faculty of Veterinary Medicine UGM Yogyakarta



Submitted by
Crista Damaris
23/527487/PKH/00853

to:
MASTER OF VETERINARY SCIENCE
FACULTY OF VETERINARY MEDICINE
UNIVERSITAS GADJAH MADA
YOGYAKARTA
2025

TESIS
POTENSI EKSTRAK MAKROALGA COKLAT (*Sargassum ilicifolium* (Turner) C. Agardh) TERHADAP KUALITAS DAN LEVEL PROTEIN PROTAMIN-1 (PRM1) PADA SEMEN BEKU SAPI SIMMENTAL

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Pada tanggal 17 Juli 2025

telah disetujui oleh:

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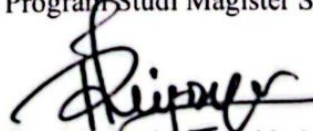
Prof. Dr. drh. Sarmin, M.P.



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Tesis ini diterima sebagai salah satu persyaratan untuk memperoleh gelar master tanggal 17 Juli 2025

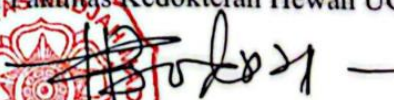
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THESIS
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PROTAMINE-1 (PRM1) PROTEIN LEVEL
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This thesis was declared acceptable
To obtain the master degree
On the date July 17th 2025

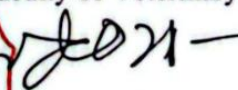
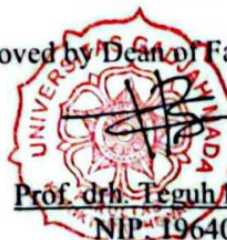
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