

**UJI IN VITRO PENGARUH PEMBERIAN NANOEMULSI DAUN JATI  
(*Tectona grandis* Linn) TERHADAP KARAKTERISTIK FERMENTASI  
RUMEN SAPI**

Tesis  
untuk memenuhi sebagian persyaratan  
mencapai derajat Sarjana S-2  
Program Studi Magister Sains Veteriner



diajukan oleh:  
**Yulita Nadzifa Erista**  
22/509998/PKH/00832

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

**IN VITRO EVALUATION OF THE EFFECT OF TEAK LEAF (*Tectona grandis* Linn) NANOEMULSION ON THE CHARACTERISTIC OF RUMEN FERMENTATION IN CATTLE**

Thesis  
presented as partial fulfilment for the requirement  
to obtain the Master Degree  
in Master of Veterinary Science



Submitted by:  
**Yulita Nadzifa Erista**  
22/509998/PKH/00832

MASTER OF VETERINARY SCIENCE  
FACULTY OF VETERINARY MEDICINE  
GADJAH MADA UNIVERSITY  
YOGYAKARTA  
2025

TESIS

**Uji *In Vitro* Pengaruh Pemberian Nanoemulsi Daun Jati (*Tectona grandis*  
Linn) terhadap Karakteristik Fermentasi Rumen Sapi**

dipersiapkan dan disusun oleh

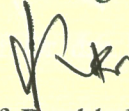
**Yulita Nadzifa Erista**

22/509998/PKH/00832

telah dipertahankan di depan Dewan Penguji  
pada tanggal 31 Januari 2025

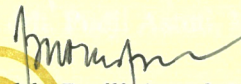
Susunan Dewan Penguji

Pembimbing Utama



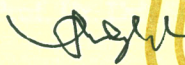
Prof. Dr. drh. Irkham Widiyono

Anggota Tim Penguji



Prof. Dr. drh. Pudji Astuti, M.P.

Pembimbing Pendamping



Prof. Dr. drh. Soedarmanto Indarjulianto




drh. Sitarina Widyarini, M.P., Ph.D.

Pembimbing Pendamping



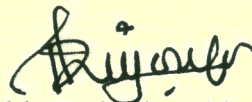
Dr. Zein Ahmad Baihaqi, S.Pt.



Dr. drh. Yanuartono, M.P.

Tesis ini diterima sebagai salah satu persyaratan  
Untuk memperoleh gelar master

Ketua Program Studi Magister Sains Veteriner



Dr. drh. Dwi Priowidodo, M.P.

Mengetahui

Dekan Fakultas Kedokteran Hewan



Prof. drh. Teguh Budipitojo, M.P., Ph.D.

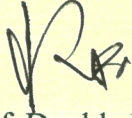
THESIS

**In Vitro Evaluation of The Effect of Teak Leaf (*Tectona Grandis* Linn)  
Nanoemulsion on the Characteristic of Rumen Fermentation In Cattle**

Prepared by  
**Yulita Nadzifa Erista**  
22/509998/PKH/00832

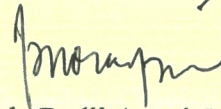
Was defended before the Board of Examiner on the date January 31<sup>st</sup> 2025  
Board of Examiners

Supervisor,



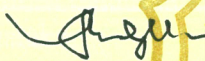
Prof. Dr. drh. Irkham Widiyono

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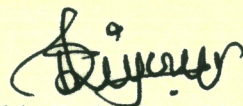


Dr. Zein Ahmad Baihaqi, S.Pt.

Dr. drh. Yanuartono, M.P.

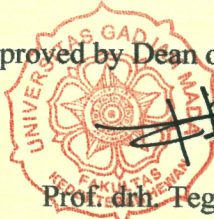
This thesis was declared acceptable  
to obtain the master degree

Head of Master of Veterinary Science Study Program



Dr. drh. Dwi Priowidodo, M.P.

Approved by Dean of Faculty of Veterinary Medicine



Prof. drh. Teguh Budipitojo, M.P., Ph.D.