



# [JTLS] Editor Decision

Inbox

**Nashi Widodo** 10/10/2019

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Mr Syukria Ikhsan Zam:

We have reached a decision regarding your submission to Journal of Tropical Life Science, "Nutritional Content and Characteristics of Antimicrobial Compounds from Fermented Oil Palm Fronds (*Elaeis guineensis* Jacq.)".

Our decision is to: MAJOR REVISION. Please effect the corrections as soon as possible.

Prof. Dr. Fahrul zaman Huyop  
Universiti Teknologi Malaysia  
Phone 0126849374  
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fahrul@utm.my

Fahrul Huyop  
Journal of Tropical Life Science  
Universitas Brawijaya

## ABSTRACT

This research was conducted to determine the nutritional quality and characteristics of antimicrobial compounds from fermented oil palm fronds (FOPF). This research was carried out using a Complete Randomized Design with 4 treatments and 4 replications. The following treatments were performed by the addition of different additives namely: 10% poultry manure, 10% cow feces, 5% urea and 5% molasses. The data were analyzed using a one-way analysis of variance and differences between treatments were tested using Duncan's multiple range test. The observed parameters were physical quality tests include pH, aroma, color, texture and nutritional quality including the content of NDF- write in full do not use abbreviations, ADF, hemicellulose, cellulose and lignin. Extraction of oil palm fronds using multilevel maceration method with ethyl acetate, n-hexane and methanol. Identification of what? is done through phytochemical screening. The activity test of antimicrobial compound extracts from FOPF using paper disc method with a concentration of 1-5. FOPF with poultry manure yields the lowest pH value, sour aroma, yellowish green, softer texture and the lowest lignin content (19.94%). Methanol extract from FOPF with poultry manure produces the highest extract yield and the largest inhibition zone diameter with a MIC is 1%.



1179-17545-1-RV.rtf





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Our decision is to: accept with revision

Prof. Dr. Fahrul zaman Huyop  
Universiti Teknologi Malaysia  
Phone 0126849374  
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# [JTLS] Galley Proof\_Nutritional Content and Characteristics of Antimicrobial Compounds



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**Nashi Widodo** 1/14/2020

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Universitas Brawijaya

**JOURNAL OF TROPICAL LIFE SCIENCE**

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doi: 10.11594/jtls.10.xx.xx

Review Article

**Nutritional Content and Characteristics of Antimicrobial Compounds from Fermented Oil Palm Fronds (*Elaeis guineensis* Jacq.)**

Dewi Febrina<sup>1</sup>, Rahmi Febriyanti<sup>1</sup>, Syukria Ikhsan Zam<sup>2\*</sup>, Zumarni, Jepri Juliantoni<sup>1</sup>, Abdul Fatah<sup>1</sup>





# [JTLS] INVOICE\_Nutritional Content and Characteristics of Antimicrobial Compounds



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**Nashi Widodo** 1/21/2020

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**Syukria IkhsanZam** 1/24/2020

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