

Compare Extraction Solvent on Antioxidant Activity and Total Flavonoid Levels of *Saluang belum* Root (*Luvunga sarmentosa* (Blume) Kurz)

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ABSTRACT

Flavonoids are phenolic compounds from nature that found in almost all parts of the plants. *Saluang belum* (*Luvunga sarmentosa* (Blume) Kurz) root is one of the medicinal plants used by Dayak people in Central and South Kalimantan where in previous studies its part was contains flavonoids. This study aims to evaluate the best solvent for extracting flavonoid content and antioxidant activity using ethanol, methanol and ethyl acetate. The antioxidant activity was performed following in vitro technique by DPPH assay. Total flavonoid content on the extracts of *L. sarmentosa* root determined using UV-Vis spectrophotometric with aluminium chloride method and calculated as quercetin equivalents (QE). The results showed the highest antioxidant activities was confirmed for the methanol extract (IC₅₀ = 80.33 ppm). The highest of total flavonoid contents was recorded for the ethanol extract (6.56 ± 0.006% w/w Quercetin Equivalent). The result showed that treatment effect of different solvent extraction was significant (sig <0.05) on total flavonoid and antioxidant activities from *L. sarmentosa* root.

Keywords: *Saluang belum*, Solvent variation, Dayak tribes, Antioxidant



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Re: Abstract Acceptance Letter

Corresponding Author: Nashrul Wathan, Lambung Mangkurat University - Indonesia

Submission Number: 44

Authors: Nashrul Wathan, Muhammad Ikhwan Rizki, Amalia Khairunnisa and Hilneser Simamora

Dear apt. Nashrul Wathan,

We are pleased to inform you that your abstract, title:

“Compare Extraction Solvent on Antioxidant Activity and Total Flavonoid Levels of Seluang Belum Root (*Luvunga sarmentosa* (Blume) Kurz)”

has been accepted to be presented in the 2nd International Conference on Agromedicine and Medical Sciences (ICAMS) 2021. The conference will be held online on October 26th – 27th, 2021.

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Looking forward to seeing you at the 2nd ICAMS 2021!

Yours sincerely,

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