

**KARAKTERISTIK MUTU NIRA SAWIT (*Elaeis guineensis* Jacq.) SELAMA PENYADAPAN DENGAN PENAMBAHAN EKSTRAK ARAMAMBU (*Derris Lour.*)**

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## **ABSTRAK**

Penelitian ini bertujuan untuk mendeskripsikan mutu nira sawit (*Elaeis guineensis* Jacq.) selama penyadapan dengan penambahan ekstrak aramambu (*Derris Lour.*) serta mengidentifikasi senyawa fitokimia yang terkandung dalam ekstrak tersebut. Penelitian dilakukan menggunakan metode eksperimental secara deskriptif dengan pemberian variasi konsentrasi ekstrak aramambu pada nira selama proses penyadapan. Parameter mutu yang diamati meliputi total padatan terlarut, total gula, gula reduksi, total asam, pH, dan angka lempeng total (ALT). Selain itu, dilakukan uji fitokimia untuk mengetahui kandungan metabolit sekunder dalam ekstrak aramambu. Data dianalisis secara deskriptif untuk menggambarkan perubahan karakteristik kimia dan mikrobiologi nira pada masing-masing perlakuan. Hasil penelitian menunjukkan adanya variasi mutu nira pada setiap tingkat penambahan ekstrak. Uji fitokimia menunjukkan bahwa ekstrak aramambu mengandung senyawa flavonoid dan terpenoid.

**Kata kunci:** *nira sawit; Derris Lour.; aramambu; pengawet alami; mutu nira.*

# **Quality Characteristics of Oil Palm Sap (*Elaeis guineensis* Jacq.) During Tapping with the Addition of *Aramambu* (*Derris* Lour.) Extract.**

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## **ABSTRACT**

This study aimed to describe the quality characteristics of oil palm sap (*Elaeis guineensis* Jacq.) during tapping with the addition of aramambu (*Derris* Lour.) extract and to identify the phytochemical compounds contained in the extract. The research was conducted using a descriptive experimental method by applying several concentrations of aramambu extract to the sap during the tapping process. The observed quality parameters included total soluble solids, total sugar, reducing sugar, total acidity, pH, and total plate count (TPC). In addition, phytochemical screening was performed to determine the presence of secondary metabolites in the aramambu extract. The data were analyzed descriptively to illustrate changes in the chemical and microbiological characteristics of the sap at each treatment level. The results indicated variations in sap quality at different extract concentrations. Phytochemical analysis revealed that the aramambu extract contained flavonoids and terpenoids.

**Keywords:** oil palm sap; derris lour; *aramambu*; natural preservative; sap quality.