

**POLITEKNIK KESEHATAN  
TANJUNGPURUNAN JURUSAN FARMASI  
Laporan Tugas Akhir, Juni 2024**

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**Penetapan Kadar Flavonoid Total Ekstrak Etanol Daun Kopi Robusta (*Coffea Canephora*) Dari Lampung Barat Dengan Metode Spektrofotometri Visibel**

**xiv + 112 halaman, 6 tabel, 11 gambar, dan 14 lampiran**

**ABSTRAK**

Pada tahun 2020 – 2021, Provinsi Lampung merupakan salah satu provinsi yang memiliki ekspor kopi nasional. Daerah di provinsi Lampung yang menghasilkan produk kopi yaitu Lampung Barat, Tanggamus dan Lampung Utara. Berdasarkan data kementerian pertanian (2020) provinsi Lampung menghasilkan kopi robusta terbesar nomor dua mencapai 24,51% dari total produksi kopi. Daun kopi robusta juga dikenal sebagai (*Coffea Canephora*) diketahui memiliki senyawa fitokimia yang mengandung flavonoid, tanin, steroid, alkaloid, saponin. Penelitian ini bertujuan untuk mengidentifikasi sifat organoleptis ekstrak daun kopi robusta juga dikenal sebagai (*Coffea canephora*), Serta ingin mengetahui skrining fitokimia dari ekstrak daun kopi robusta (*Coffea canephora*), dan menganalisa penetapan kadar flavonoid total pada ekstrak etanol daun kopi robusta (*Coffea canephora*) dengan menggunakan metode spektrofotometri visible.

Hasil penelitian menunjukkan bahwa organoleptis ekstrak daun kopi robusta (*Coffea canephora*) memiliki rasa pahit, bau khas pada daun, tekstur cairan kental dan berwarna coklat kehitaman. Hasil uji skrining fitokimia menunjukkan bahwa ada flavonoid, alkaloid, tannin, saponin, dan steroid yang positif. Hasil uji flavonoid total ekstrak daun kopi robusta (*Coffea canephora*) adalah positif sebesar  $2,605 \text{ mg/ml} \pm 5,21\%$ .

**Kata Kunci :** Skrining, penetapan kadar flavonoid daun kopi robusta (*Coffea canephora*)

**Daftar Bacaan :** 26 (2011-2023)

**TANJUNGPURBA HEALTH POLYTECHNIC PHARMACEUTICAL  
DEPARTMENT  
Final Project Report, June 2024**

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**Determination of Total Flavonoid Content of Ethanol Extract of Robusta Coffee (*Coffea Canephora*) Leaves from West Lampung Using the Visible Spectrophotometric Method**

**xiv + 112 pages, 6 tables, 11 figures, and 14 appendices**

**ABSTRACT**

*In 2020-2021, Lampung Province is one of the provinces that has national coffee exports. The areas in Lampung Province that produce coffee products are West Lampung, Tanggamus and North Lampung. Based on data from the Ministry of Agriculture (2020), Lampung Province produces the second largest robusta coffee, reaching 24.51% of total coffee production. Robusta coffee leaves also known as (*Coffea Canephora*) are known to have phytochemical compounds containing flavonoids, tannins, steroids, alkaloids, saponins. This study aims to identify the organoleptic properties of robusta coffee leaf extract also known as (*Coffea canephora*), as well as to find out the phytochemical screening of robusta coffee leaf extract (*Coffea canephora*), and analyze the determination of total flavonoid levels in ethanol extract of robusta coffee leaves (*Coffea canephora*) using the visible spectrophotometry method.*

*The results of the study showed that the organoleptic of robusta coffee leaf extract (*Coffea canephora*) has a bitter taste, a distinctive odor of the leaves, a thick liquid texture and a blackish brown color. The results of the phytochemical screening test showed that there were positive flavonoids, alkaloids, tannins, saponins, and steroids. The results of the total flavonoid test of robusta coffee leaf extract (*Coffea canephora*) were positive at 2.605 mg/ml  $\pm$  5.21%.*

**Keywords:** Screening, determination of flavonoid levels of robusta coffee leaves (*Coffea canephora* )

**Reading List:** 26 (2011-2023)