

ABSTRAK

Terubuk (*Saccharum spontaneum* var. *edulis* (Hassk) K. Schum) merupakan sayuran lokal khas Karawang yang masuk kedalam salah satu jenis sayuran *indigenious*. Penelitian ini bertujuan untuk mengidentifikasi kadar kandungan senyawa fenolik total, flavonoid total dan menganalisis gugus fungsi yang terkandung dalam ekstrak etanol 96% daun terubuk menggunakan metode FTIR. Penelitian ini merupakan penelitian eksperimental, yaitu dengan melakukan standarisasi simplisia, skrining fitokimia, penetapan kadar fenolik, flavonoid total, dan analisis gugus fungsi menggunakan FTIR (*Fourier Transform InfraRed*). Analisis data pada standarisasi simplisia dan skrining fitokimia dimuat dalam bentuk tabel, pada penetapan kadar fenolik dan flavonoid total digunakan persamaan regresi linier $y = ax + b$ dan diolah menggunakan *Microsoft Excel*, serta analisis gugus fungsi FTIR (*Fourier Transform InfraRed*) dinyatakan dalam bentuk spektra. Hasil skrining fitokimia menunjukan ekstrak etanol daun terubuk mengandung senyawa alkaloid, flavonoid, fenolik, saponin, kuinon, monoterpenoid dan sesquiterpenoid. Hasil penetapan kadar fenolik total pada ekstrak etanol daun terubuk sebesar 2,6601 mgGAE/g, kadar flavonoid total sebesar 4,1167 mgQE/g, dan hasil analisis gugus fungsi diketahui adanya gugus O-H, C-H, C=O, C=C, CO.

Kata Kunci : Terubuk, Kadar Fenolik, Flavonoid Total, FTIR



ABSTRACT

Terubuk (Saccharum spontaneum var. edulis (Hassk) K. Schum) is a local vegetable typical of Karawang which is included in one of the types of indigenious vegetables. This study aims to identify the content levels of total phenolic compounds, total flavonoids and analyze the functional gugugs contained in ethanol extract of 96% terubuk leaves using the FTIR method. This study is an experimental research, namely by standardizing simplisia, screening phytochemicals, determining phenolic levels, total flavonoids, and analyzing functional groups using FTIR (Fourier Transform InfraRed). Data analysis on simplicia standardization and phytochemical screening was contained in the form of a table, in the determination of phenolic and total flavonoid levels, a linear regression equation $y = ax + b$ was used and processed using Microsft Excel, and the analysis of the FTIR (Fourier Transform InfraRed) function group was expressed in the form of a spectrum. The results of phytochemical screening showed that the ethanol extract of terubuk leaves contained alkaloid compounds, flavonoids, phenolics, saponins, quinones, monoterpenoids and sesquiterpenoids. The results of determining the total phenolic content in the ethanol extract of terubuk leaves were 2.6601 mgGAE/g, the total flavonoid content was 4.1167 mgQE/g, and the results of functional group analysis showed that there were O-H, C-H, C=O, C=C, C-O groups.

Keyword : Terubuk, Phenolic Content, Total Flavonoid, FTIR

