

ABSTRACT

PHYTOCHEMICAL SCREENING OF ARABIC CASCARA (*Coffea arabica* L.) EXTRACT DISSOLVED IN ETHANOL 96% USING DIGESTION EXTRACTION METHOD

Ajeng Afrita Rosanti

Arabica coffee, a vital agricultural commodity in Indonesia, generates substantial husk waste. This waste, known as cascara, contains polyphenols, chlorogenic acid, and caffeine, offering potential health benefits like antioxidant properties and enzyme inhibition relevant to diabetes management. Despite this, much of the waste remains underutilized. A study focused on extracting secondary metabolites from cascara using 96% ethanol revealed the presence of tannins, saponins, steroids, and flavonoids through phytochemical screening. Negative results were shown by terpenoids, and alkaloids compounds. Further qualitative and quantitative analyses, such as Thin-Layer Chromatography and UV-Vis Spectrophotometry, are suggested for a deeper understanding of these compounds.

Keywords : cascara arabika (*Coffea arabica* L.), digestion method, ethanol 96% phytochemical screening, secondary metabolites