

Penetapan parameter spesifik dan non spesifik simplisia dan fraksi etil asetat daun belimbing manis (*Averrhoa carambola* L.) = Determination of specific and non specific parameter from simplicia and ethyl acetate fraction of starfruit leaves (*Averrhoa carambola* L.)

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Abstrak

Daun Belimbing Manis *Averrhoa carambola* L. merupakan salah satu tanaman yang memiliki banyak khasiat, termasuk untuk kesehatan kulit manusia. Dalam upaya pengembangan obat tradisional, proses penjaminan mutu dan keamanan obat perlu dilakukan standarisasi yang terdiri dari parameter spesifik dan non spesifik. Pengujian dilakukan terhadap simplisia dan fraksi etil asetat daun belimbing manis berasal dari tiga daerah berbeda yakni Depok, Subang, dan Sukabumi. Kadar senyawa terlarut dalam air 14,32, kadar senyawa terlarut dalam etanol 9,69, dan kadar flavonoid total 0,12-0,18 mgQE/gram simplisia. Susut pengeringan 9,70, kadar abu total 7,14, dan kadar abu tidak larut asam 0,31.

Proses ekstrak dilakukan dengan metode maserasi. Kemudian dilakukan partisi cair-cair sehingga didapatkan fraksi etil asetat. Rendeman fraksi etil asetat daun belimbing manis 4,2-6,2. Kadar air berkisar antara 4,79, kadar abu total 1,55, kadar abu tidak larut asam 0,064, dan kadar flavonoid total 14,63-22,14 mgQE/gram fraksi. Pola kromatogram dari simplisia dan fraksi etil asetat daun belimbing manis yang berasal dari tiga daerah berbeda dilakukan dengan fase gerak kloroform:metanol:air 8:2:0,5 dengan apigenin sebagai standar. Hasil pengujian residu pelarut dan cemaran logam berat Hg, Pb, Cd, As menunjukkan bahwa fraksi etil asetat daun belimbing manis tidak mengandung residu pelarut dan cemaran logam berat.

.....Starfruit Leaf *Averrhoa carambola* L. is one of the plants that has many benefits, including for human skins health. In efforts to develop traditional medicine, the process of quality assurance and drug safety needs to be done is to standardize consisting of specific and nonspecific parameters. The test was performed on simplicia and fraction of ethyl acetate of starfruit leaves from three different areas Depok, Subang Sukabumi. The water soluble extract 14,32, the ethanol soluble extract 9.69 total flavonoid levels 0.12 0.18 mgQE gram simplicia. Drying losses 9.70, ash content 7.14 acid soluble ash content 0.31.

The process of extract was done by maceration. Liquid partitions was then performed to obtain fraction of ethyl acetate. The yield fraction of ethyl acetate starfruit leaves 4.2 6,2. Water content 4.79, total ash content 1.55, acid soluble ash content 0.064, and total flavonoid levels 14.63 22.14 mgQE gram fraction. The chromatogram pattern of simplicia and ethyl acetate fraction of sweet starfruit leaves from three different regions was performed with chloroform methanol water 8,2 0,5 with apigenin as standard. The results of solvent residues and heavy metal contaminants Hg, Pb, Cd, As showed that the fraction of ethyl acetate did not contain solvent residue and heavy metal contamination.