

STANDARISASI DAN PENETAPAN PROFIL EKSTRAK ETANOL 96%
PERIKARPIUM MANGGIS (*Garcinia mangostana L.*)

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ABSTRACT

Mangosteen pericarps (*Garcinia mangostana L.*) had been used as traditional medicine. α -mangosteen, that content in *Garcinia* pericarpium, was known have cytotoxic activity so that extract of mangosteen pericarps (*Garcinia mangostana L.*) potential to developed as standardized herbal drug and phytopharmaca product. Therefore, in this research, general standard parameter and fingerprint of ethanol 96% extract of mangosteen pericarps was determined. Mangosteen pericarps which originated from Trenggalek, East Java, and then washed, cut, dried by oven in 50o C and grinded into powders. Furthermore, the powders made into extract by maceration in 96% ethanol for 24 hours. Extract obtained to be condensed by evaporated in vacuo until got a viscous extract. Next, the general standard parameter and fingerprint was determined

The result of the general standard parameter determination of ethanol 96% extract mangosteen pericarps (*Garcinia mangostana L.*) showed that value of loss on drying was $(18,27 \pm 0,02)\%b/b$, water content was $(11,44 \pm 0,2) \%v/b$, total ash content was $(1,64 \pm 0,04) \%b/b$, acid insoluble ash content was $(1,189 \pm 0,09)$, wáter soluble ash content was $(1,46 \pm 0,05) \%b/b$, Pb content was 0,201 mg/kg, Hg and As content was undetected, Cd content was 0,038 mg/kg, Cu content was 0,014 mg/kg, water soluble substances content was $(14,48 \pm 0,45) \%b/b$, ethanol soluble substances content was $(80,46 \pm 1,12) \%b/b$, and α -mangostin content was $(21,65 \pm 1,30) \%b/b$.

Fingerprint determination of ethanol 96% extract showed that there are only two peaks in TLC-densitometer chromatogram. Obtained spectra from FTIR show that there are another function group in extract if compared with α -mangosteen standard.

Keyword: *Garcinia mangostana L.*, mangosteen pericarps, ethanol 96% extract, general standard parameter, fingerprint