

## ABSTRAK

### UJI PARAMETER SPESIFIK DAN NON SPESIFIK EKSTRAK ETANOL 96% DAUN KENIKIR (*Cosmos caudatus*)

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Daun kenikir digunakan secara tradisional sebagai obat penurun suhu tubuh, memperbaiki sirkulasi darah, mengobati diabetes, sebagai antiaging dan menjaga kekuatan tulang (karena kandungan kalsiumnya), perawatan terhadap infeksi mikroorganisme bersifat patogen dan menjaga sistem pernafasan. Saat ini daun kenikir dimanfaatkan sebagai bahan obat tradisional sehingga penelitian ini bertujuan untuk mendapatkan profil standarisasi spesifik dan non-spesifik dari simplisia daun kenikir. Proses ekstraksi daun kenikir dilakukan dengan metode maserasi dilanjutkan dengan proses pemekatan ekstrak. Parameter yang ditetapkan dalam standarisasi ekstrak yaitu parameter spesifik meliputi identitas ekstrak, organoleptis, kadar sari laut air, kadar sari larut etanol dan dilanjutkan dengan skrining fitokimia dan penetapan kadar flavonoid total. Parameter non spesifik meliputi kadar air, kadar abu total, kadar abu tak larut asam. Hasil uji parameter spesifik berupa ekstrak kental berwarna coklat kehitaman dengan bau khas kenikir dan rasa sedikit pahit; hasil skrining fitokimia ekstrak etanol daun kenikir mengandung flavonoid, alkaloid, tanin, terpenoid, fenol dan saponin. Hasil uji parameter non spesifik berupa penetapan kadar air yang diperoleh sebesar  $1,72\% \pm 0,13$ , kadar abu total sebesar  $0,15\% \pm 0,05$ , kadar abu tidak larut asam sebesar  $0,07\% \pm 0,02$  dan kadar flavonoid total diperoleh sebesar  $1,762\% \pm 1,055\%$  b/b. Hasil penetapan parameter spesifik sesuai dengan persyaratan Farmakope Herbal Indonesia.

**Kata kunci:** *kenikir (Cosmos caudatus), standarisasi, parameter spesifik dan non spesifik.*

## ABSTRACT

### TEST OF SPECIFIC AND NON-SPECIFIC PARAMETERS OF 96% ETHANOL EXTRACT OF KENIKIR LEAVES (*Cosmos caudatus*)

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Kenikir leaves are traditionally used as a body temperature-lowering drug, improve blood circulation, treat diabetes, as an antiaging and maintain bone strength (due to its calcium content), treatment of pathogenic microorganism infections and maintain the respiratory system. Currently, kenikir leaves are used as traditional medicine ingredients so this study aims to obtain specific and non-specific standardization profiles of kenikir leaf simplisia. The extraction process of kenikir leaves is carried out by maceration method followed by the extract concentration process. The parameters set in the extract standardization are specific parameters including extract identity, organoleptis, water seafood content, ethanol soluble juice content and continued with phytochemical screening and determination of total flavonoid levels. Non-specific parameters include moisture content, total ash content, acid insoluble ash content. The test results of specific parameters are a blackish-brown viscous extract with a characteristic smell of kenikir and a slightly bitter taste; Phytochemical screening results of ethanol extract of kenikir leaves contain flavonoids, alkaloids, tannins, terpenoids, phenols and saponins. The results of non-specific parameter tests were in the form of determination of water content obtained by  $1.72\% \pm 0.13$ , total ash content of  $0.15\% \pm 0.05$ , acid insoluble ash content of  $0.07\% \pm 0.02$  and total flavonoid content obtained by  $1.762\% \pm 1.055\%$  b/b. The results of determining specific parameters are in accordance with the requirements of the Indonesian Herbal Pharmacopoeia.

**Keywords:** *kenikir (Cosmos caudatus), standardization, specific and non-specific parameters.*