

**PENETAPAN KADAR FLAVONOID TOTAL DAN PENGUJIAN
AKTIVITAS ANTIOKSIDAN EKSTRAK SERTA FRAKSI DAUN
KENTUT (*Paederia foetida* L.) DENGAN METODE PEREDAMAN
RADIKAL BEBAS DPPH**

ABSTRAK

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Telah dilakukan penelitian mengenai penetapan kadar flavonoid total serta aktivitas antioksidan pada ekstrak dan fraksi daun kentut (*Paederia foetida* L.) dengan metode peredaman radikal bebas DPPH (1,1-diphenyl-2-picrylhydrazyl-diphenyl- β -picrylhydrazyl). Pada penelitian ini daun kentut diekstraksi dengan etanol 96% dan difraksinasi menggunakan pelarut n-heksan, etil asetat dan etanol. Hasil penelitian menunjukkan ekstrak etanol daun kentut memiliki kadar flavonoid total sebesar 1,562%, aktivitas inhibisi terhadap DPPH sebesar 37,16%, serta IC₅₀ sebesar 209,87 μ g/mL. Di antara ketiga fraksi dari ekstrak etanol, fraksi n-heksan memiliki kadar flavonoid total dan aktivitas antioksidan tertinggi, dengan kandungan flavonoid total sebesar 1,283% , aktivitas inhibisi 15,81%, serta IC₅₀ sebesar 352,02 μ g/mL.

Kata kunci : Daun kentut (*Paederia foetida* L.), kadar flavonoid total, antioksidan, DPPH

**DETERMINATION OF TOTAL FLAVONOID CONTENTS AND
ANTIOXIDANT ACTIVITY FROM EXTRACTS AND FRACTIONS OF
KINGS TONIC (*Paederia foetida* L.) LEAVES BY FREE RADICAL
SCAVENGING ASSAY USING DPPH**

ABSTRACT

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A research about the determination of total flavonoid content and antioxidant activity from extracts and fractions of kings tonic (*Paederia foetida* L.) leaves had been done using free radical scavenging assay using DPPH (1,1-diphenyl-2-picrylhydrazyl-diphenyl- β -picrylhydrazyl). In this research kings tonic leaves were extracted by 96% ethanol and fractionated using n-hexane, ethyl acetate and ethanol. The results showed total flavonoid content of ethanol extract was 1.562%, inhibition activity 37.16%, and IC₅₀ 209.87 μ g/mL. Among three fractions of the ethanol extract, n-hexane fraction had the highest contents of total flavonoid and antioxidant activity, total flavonoid content 1.283%, inhibition activity 15.81%, and IC₅₀ 352.02 μ g/mL.

Keyword : Kings tonic (*Paederia foetida* L.), total flavonoid content, antioxidant, DPPH.