

Phytochemical and Antioxidant Activity Test of Water Fraction Extract of Sisik Naga (*Drymoglossum piloselloides*) Leaves

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Abstract : *Drymoglossum piloselloides* or more commonly known as sisik naga fern is a member of Polypodiaceae Family that is abundant and widely distributed in nature. That being said, there hasn't been many studies reporting about the benefits of this fern. The aim of this study was to find out the active compounds and antioxidant activity of water fraction extract of sisik naga leaves. The study will be able to optimize the use of this fern in the future. In this study, phytochemical test was done qualitatively by using Mayer, Dragendorff and Wagner reagent for alkaloid test; FeCl₃ for phenolic test; Shinoda test for flavonoid; Liebermann-Burchard test for triterpenoid and Forth test for saponin. Antioxidant activity test was done by using 20D spectronic spectrophotometer to determine the percentage of DPPH free radical inhibition. The results showed that water fraction extract of sisik naga leaves contain phenolic and IC₅₀ = 5.44 µg/ml. This means that sisik naga leaves can be used as an antioxidant.

Keywords : antioxidant activity test, dpph, phytochemical test, *drymoglossum piloselloides*

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