

## The Effect of Drying Method on Potential Antioxidants in Ethanol Extract of *Sungkai* Leaf (*Parenoma Canescens* Jack.) Simplicia from Kalimantan

### Pengaruh Pengeringan Simplicia Terhadap Potensi Antioksidan Ekstrak Etanol Daun Sungkai (*Parenoma Canescens* Jack.) Asal Kalimantan

Fahrina Kasumawati<sup>1,\*</sup>, Siti Hasnah<sup>2</sup>

<sup>1</sup>Pharmacy Laboratory, Lambung Mangkurat University, Banjarbaru, Indonesia

<sup>2</sup>Chemistry Laboratory, Lambung Mangkurat University, Banjarbaru, Indonesia

\*Email: fahrinakasumawati@gmail.com

#### ABSTRACT

*Sungkai* (*P. canescens*) is a medicinal plant whose leaves are used to alleviate fever and strengthen the body's immune system. This study aimed to determine the effect of the simplicia drying technique on the antioxidant potential of the ethanol extract of *Sungkai* leaves from Kalimantan. The drying method employed was oven drying at 70°C, oven drying at 50°C, sun drying, and wind drying. The study's findings indicated that the antioxidant activity of all drying techniques was in the very active category. The drying method with the lowest antioxidant potential was oven drying at 50°C with IC<sub>50</sub> value of 13.340 ppm, wind drying with IC<sub>50</sub> value of 14.610 ppm, sun drying with IC<sub>50</sub> value of 16.799ppm, and oven drying at 70°C with IC<sub>50</sub> value of 17.034 ppm.

**Keywords:** *Sungkai* leaf ; IC<sub>50</sub>; antioxidant

#### ABSTRAK

Tanaman daun *Sungkai* (*P. canescens*) merupakan tanaman obat yang digunakan untuk mengobati demam dan meningkatkan imun tubuh. Tujuan dalam penelitian ini mengetahui pengaruh pengeringan simplicia terhadap potensi antioksidan ekstrak etanol daun *sungkai* (*P. canescens* Jack.) dari Kalimantan. Metode pengeringan yang digunakan adalah pengeringan oven 70°C, oven 50°C, matahari dan kering angin. Hasil penelitian didapatkan bahwa aktifitas antioksidan untuk semua metode pengeringan pada tanaman daun *sungkai* (*P. canescens*) ini memiliki aktifitas antioksidan termasuk dalam kategori sangat aktif. Metode pengeringan dilihat berdasarkan potensi antioksidan yang paling rendah adalah oven 50°C nilai IC<sub>50</sub> 13,340 ppm, kering angin nilai IC<sub>50</sub> 14,610 ppm, matahari nilai IC<sub>50</sub> 16,799 ppm dan oven 70°C nilai IC<sub>50</sub> 17,034 ppm

**Kata kunci:** daun *Sungkai*; IC<sub>50</sub>; antioksidan

**Submitted:** October 6, 2021; **Accepted:** February 4, 2022; **Available online:** March 8, 2022