

ABSTRAK

Begonia x erythrophylla Herinca merupakan tanaman hias yang berpotensi dimanfaatkan sebagai obat tradisional karena kandungan metabolit sekundernya, Penelitian ini bertujuan untuk menstandarisasi ekstrak etanol 70% daun *Begonia x erythrophylla* Herincq berdasarkan parameter spesifik dan nonspesifik, serta mengidentifikasi profil fitokimianya dengan metode LC-MS. Ekstraksi dilakukan secara maserasi menggunakan etanol, 70%, kemudian diuji organoleptik, kadar sari larut, susut pengeringan, bobot jenis, kadar air, dan kadar abu. Skrining fitokimia dan analisis LC-MS digunakan untuk mengetahui kandungan metabolit sekunder. Hasil penelitian menunjukkan rendemen ekstrak sebesar 4,90% dengan karakteristik kental, hijau kehitaman, dan bau khas. Parameter nonspesifik menunjukkan susut pengeringan 0,0106%, bobot jenis 0,8802 g/mL, kadar abu total 0,1049%, abu larut air 22,90%, dan abu tidak larut asam 20,65%. Skrining fitokimia mendeteksi alkaloid, flavonoid, tanin, saponin, polifenolat, terpenoid, dan steroid. Analisis LC-MS menemukan lebih dari 60 senyawa, termasuk Kazinol A, Quercitrin, dan Isoscoparin yang berpotensi sebagai antioksidan dan antibakteri, Dengan demikian. Daun *Begonia x erythrophylla* Herincq berpotensi sebagai sumber bahan obat tradisional sekaligus tanaman hias bernilai ekonomis.

Kata Kunci: *Begonia x erythrophylla* Herincq, standarisasi, fitokimia, LC-MS, antioksidan.



KARAWANG

ABSTRACT

Begonia x erythrophylla Herincq is an ornamental plant that has the potential to be used as a traditional medicine because of its secondary metabolite content. This study aims to standardize 70% ethanol extract of *Begonia x erythrophylla Herincq* leaves based on specific and nonspecific parameters, and identify its phytochemical profile using the LC-MS method. Extraction was carried out by maceration using 70% ethanol, then tested for organoleptic, soluble extract content, drying loss, specific gravity, water content, and ash content. Phytochemical screening and LC-MS analysis were used to determine the content of secondary metabolites. The results showed an extract yield of 4.90% with thick, blackish green characteristics and a distinctive odor. Nonspecific parameters showed a drying loss of 0.0106%, specific gravity of 0.8802 g/mL, total ash content of 0.1049%, water-soluble ash of 22.90%, and acid-insoluble ash of 20.65%. Phytochemical screening detected alkaloids, flavonoids, tannins, saponins, polyphenols, terpenoids, and steroids. LC-MS analysis found more than 60 compounds, including Kazinol A, Quercitrin, and Isoscoparin which have potential as antioxidants and antibacterials. Thus, *Begonia x erythrophylla Herincq* leaves have the potential to be a source of traditional medicinal ingredients as well as an economically valuable ornamental plant.

Keywords: *Begonia x erythrophylla Herincq*, standardization, phytochemistry, LC-MS, antioxidants.

