

**PROFIL BOTANI DAN FITOKIMIA EKSTRAK ETANOLIK DAUN
SIRSAK (*Annona muricata* L.) DAN DAUN SIRSAK
GUNUNG (*Annona montana* Macfad.)**

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ABSTRAK

Pendahuluan: Tanaman famili *annonaceae* memiliki beberapa 130 *genera* dan 2300 spesies, *genus annona* memiliki 70 spesies antara lain tanaman sirsak dan sirsak gunung. Salah satu spesies famili *annonaceae* memiliki ciri-ciri botani dan senyawa metabolit sekunder yang berbeda berdasarkan tempat tanaman tumbuh dan habitatnya. Tanaman sirsak dan sirsak gunung memiliki khasiat sebagai pengobatan antihipertensi, antidiabetes dan antibakteri. Penelitian ini bertujuan untuk mengetahui makroskopis, mikroskopis, skrining fitokimia dan KLT daun sirsak dan sirsak gunung. **Metode:** Desain penelitian pre-eksperimental analisa deskriptif kualitatif dan kuantitatif. Penelitian ini menggunakan sampel daun sirsak dan daun sirsak gunung sebanyak 5 kg yang diambil Desa Girikarya, Kecamatan Langkaplancar, Kabupaten Pangandaran, Provinsi Jawa Barat **Hasil:** Hasil profil botani secara makroskopis pada daun sirsak bentuk daun lanset ujung meruncing warna hijau-hijau tua dan sirsak gunung bentuk daun elips ujung meruncing warna hijau tua dan secara mikroskopis pada serbuk daun sirsak dan daun sirsak gunung ditemukan stomata tipe anisositik, amilum, trikoma. Hasil uji skrining fitokimia menggunakan pelarut etanol 70% pada kedua tanaman positif flavonoid, alkaloid, saponin, steroid, terpenoid, tanin, dan fenol. Hasil KLT daun sirsak dan daun sirsak gunung pada sinar UV 366 nm positif flavonoid bercak kuning nilai Rf 0,9 dan 0,96, alkaloid bercak jingga 0,81 dan 0,93, steroid bercak biru 0,82 dan 0,93, saponin bercak hijau 0,92 dan 0,86, tanin bercak hitam 0,94 dan biru 0,81, sinar UV 254 nm semua senyawa bercak hitam. **Kesimpulan:** Profil botani secara makroskopis dan mikroskopis daun sirsak dan sirsak gunung memiliki perbedaan. Tidak ada perbedaan hasil skrining fitokimia dan kromatografi lapis tipis daun sirsak dan daun sirsak gunung.

Kata kunci : Etanol 70%; Makrokopis; Mikroskopis; Sirsak; Skrining Fitokimia, KLT

**BOTANICAL AND PHYTOCHEMICAL PROFILE OF SOURSOP
(*Annona muricata* L.) AND SOURSOP LEAVES ETHANOLIC
EXTRACT MOUNTAIN (*Annona montana* Macfad.)**

ABSTRACT

Introduction: Plants of the Annonaceae family have some 130 genera and 2300 species, the genus *Annona* has 70 species including soursop and mountain soursop. A species of the Annonaceae family has different botanical characteristics and secondary metabolites based on where the plant grows and its habitat. Soursop and mountain soursop plants have efficacy as an antihypertensive, antidiabetic and antibacterial treatment. This study aims to determine the macroscopic, microscopic, phytochemical screening and TLC of soursop leaves and mountain soursop. **Methods:** Pre-experimental research design qualitative and quantitative descriptive analysis. This study used 5 kg samples of soursop leaves and mountain soursop leaves taken from Girikarya Village, Langkaplancar District, Pangandaran Regency, West Java Province. **Results:** Leaf shape is elliptical with a pointed tip, dark green in color and microscopically, stomata of anisocytic, starch, and trichome types are found on powdered soursop and mountain soursop leaves. The results of the phytochemical screening test using 70% ethanol solvent on both plants were positive for flavonoids, alkaloids, saponins, steroids, terpenoids, tannins, and phenols. TLC results of soursop leaves and mountain soursop leaves on UV light 366 nm positive for flavonoids with yellow spots Rf values 0.9 and 0.96, alkaloids with orange spots 0.81 and 0.93, steroids with blue spots 0.82 and 0.93, saponins green spot 0.92 and 0.86, tannin black spot 0.94 and blue 0.81, UV light 254 nm all black spot compounds. **Conclusion:** There are differences in the macroscopic and microscopic botanical profiles of soursop and mountain soursop leaves. There was no difference in the results of phytochemical screening and thin layer chromatography of soursop leaves and mountain soursop leaves.

Keywords: 70% ethanol: macroscopic: microscopic: phytochemical: soursop:screening: TLC