

ABSTRAK

Deni Mardiana Br Harahap, NIM 4173520007 (2021). Analisis Anatomi Daun Pada Varian-Varian Gandaria (*Bouea oppositifolia* Roxb.) Asal Kebun Raya Bogor.

Bouea oppositifolia Roxb. merupakan suku *Anacardiaceae*. Pengamatan morfologi tanaman segar maupun herbarium *Bouea oppositifolia* Roxb. memperlihatkan sejumlah variasi yang cukup mencolok terutama pada helai daunnya. Penelitian ini bertujuan untuk mengetahui Tipe, letak dan indeks stomata, bentuk dan jumlah lapisan epidermis, tipe trikoma, tipe daun, dan tipe berkas pengangkut serta mengidentifikasi perbedaan struktur anatomi varian *Bouea oppositifolia* Roxb. asal Kebun Raya Bogor. Penelitian ini dilaksanakan pada bulan Februari-Mei 2021 di Laboratorium Biologi FMIPA Universitas Negeri Medan menggunakan metode Paraffin. Hasil penelitian menunjukkan stomata keempat sampel bertipe stomata anisositik, terletak pada permukaan abaksial daun, indeks stomata sampel asal Belitung senilai 11,73, Riau yaitu 7,51, Lampung senilai 8,56 dan Batang Sumani senilai 7,88. Bentuk epidermis keempat sampel bergelombang, masing-masing memiliki satu lapis sel pada permukaan adaksial dan abaksial daun, tipe trikoma keempat sampel yaitu trikoma peltat yang juga ditemukan pada tanaman mangga yang merupakan kerabat dekat spesies ini. Tipe daun keempat sampel dorsiventral, berkas pengangkut bertipe kolateral terbuka. Secara keseluruhan tidak ditemukan perbedaan yang signifikan antara keempat sampel varian *Bouea oppositifolia* Roxb. asal Kebun Raya Bogor.

Kata kunci: Varian *Bouea oppositifolia* Roxb., Anatomi daun *Bouea oppositifolia* Roxb., derivat epidermis.

ABSTRACT

Deni Mardiana Br Harahap, NIM 4173520007 (2021). Analysis of Leaf Anatomy on Variants of Gandaria (*Bouea oppositifolia* Roxb.) from Bogor Botanical Gardens.

Bouea oppositifolia Roxb. belongs to the *Anacardiaceae* family. Fresh plant morphology and herbarium *Bouea oppositifolia* Roxb. quite striking variations, especially in the leaves. This study aims to determine the type, location and index of stomata, shape and number of epidermal layers, trichome type, leaf type, and carrier bundle type and to identify differences in the anatomical structure of the variant *Bouea oppositifolia* Roxb. from the Bogor Botanical Gardens. This research was conducted in February-May 2021 at the Biology Laboratory of the Faculty of Mathematics and Natural Sciences, State University of Medan using the Paraffin method. The results showed that the stomata of the four samples were anisocytic stomata type, located on the abaxial surface of the leaves, the stomata index of samples from Belitung was 11.73, Riau was 7.51, Lampung was 8.56 and Batang Sumani was 7.88. The shape of the epidermis of the four samples is wavy, each has a single layer of cells on the adaxial and abaxial surfaces of the leaves, the type of trichomes in the fourth sample is trichome peltate which is also found close to relatives of this species. The fourth leaf type sample is dorsiventral, the carrier bundle is an open collateral type. Overall, there was no significant difference between the four samples of the *Bouea oppositifolia* Roxb variant. from the Bogor Botanical Gardens.

Keywords: *Bouea oppositifolia* Roxb. variant, *Bouea oppositifolia* Roxb. leaf anatomy, epidermal derivatives.