

ABSTRAK

Desi Christina Simanjuntak, NIM 4173520008 (2021). Identifikasi Fungi Mikoriza Arbuskula Pada Rhizosfer Tanaman Pidada Putih (*Sonneratia alba*) Di Hutan Mangrove Belawan Sicanang.

Tanah merupakan tempat hidup fungi mikoriza arbuskula yang sangat berpengaruh dalam perkembangbiakan mikoriza. Fungi mikoriza juga dapat membantu tanaman dalam memperoleh unsur hara, membantu ketahanan mangrove terhadap salinitas. Penelitian ini bertujuan untuk mengetahui jenis-jenis fungi mikoriza arbuskula, persentase kolonisasi fungi mikoriza arbuskula serta mengetahui karakteristik sifat kimia tanah. Penelitian dilaksanakan pada bulan Mei 2021 sampai Juni 2021. Pengambilan contoh tanah dilakukan dikawasan Hutan Mangrove Belawan Sicanang dan dilakukan isolasi di Laboratorium Biologi Universitas Negeri Medan. Hasil penelitian didapatkan 14 spesis, 5 genus dan 3 family diantaranya Family *Glomeraceae*, (6 jenis genus *Glomus*, dan 1 jenis genus *Sclerocystis*) family *Acaulosporaceae* (4 jenis genus *Acaulospora*) dan family *Gigasporaceae* (3 jenis genus *Gigaspora*) dengan Persentase kolonisasi akar 28% dan termasuk kedalam kategori sedang. Parameter hasil uji sifat kimia tanah dengan pH 5,7 (Masam), C-Organik 5,54% (sangat tinggi), N-Total 0,24% (tinggi) dan P-Tersedia 100,84 ppm (sangat tinggi)

Kata Kunci : Fungi Mikoriza Arbuskula, Rhizosfer, Pidada Putih (*Sonneratia alba*)

ABSTRACT

Desi Christina Simanjuntak, NIM 4173520008 (2021). Arbuscular Mycorrhizae Fungi Identification On Pidada Putih (*Sonneratia alba*) Rhizosphere In Belawan Sicanang Mangrove Forest.

Soil is a place for fungi mycorrhizae arbuscular to live which is very influential in the proliferation of mycorrhizae. Mycorrhizal fungi can also assist plants in obtaining nutrients, helping mangrove resistance to salinity. This study aims to determine the types of arbuscular mycorrhizal fungi, the percentage of colonization of arbuscular mycorrhizal fungi and to determine the chemical characteristics of the soil. The research was carried out from May 2021 to June 2021. Soil sampling was carried out in the Belawan Sicanang Mangrove Forest and isolated at the Biology Laboratory of the State University of Medan. The results obtained 14 species, 5 genera and 3 families including the *Glomeraceae* family, (6 species of the genus *Glomus*, and 1 species of the genus *Sclerocystis*) the family *Acaulosporaceae* (4 species of the genus *Acaulospora*) and the family *Gigasporaceae* (3 species of the genus *Gigaspora*) with a root colonization percentage of 28%. and is in the medium category. Parameters of soil chemical properties test with pH 5.7 (Sour), C-Organic 5.54% (very high), N-Total 0.24% (high) and P-Tersedia 100.84 ppm (very high).

Keywords: Fungi Mycorrhizae Arbuscular, Rhizosphere, Pidada Putih (*Sonneratia alba*).

