

PENGARUH MACAM MEDIA TANAM TERHADAP PERTUMBUHAN DAN HASIL PETERSELI SECARA HIDROPONIK

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INTISARI

Peterseli merupakan salah satu tanaman jenis sayuran yang sangat kaya akan nutrisi, kandungan zat besi, kalsium, protein, asam folat, betakarotin, klorofil, zat antioksidan, anti bakteri, serta vitamin A, B12 dan C. Sistem hidroponik Nutrien Film Teknikque (NFT) termasuk cara baru bercocok tanam secara hidroponik. Media tanam hidroponik adalah suatu media yang terbuat dari material atau bahan selain tanah yang digunakan sebagai tempat tumbuh dan berkembangnya akar tanaman. Macam media tanam yaitu Rockwool, sabut kelapa, sabut pinang dan ampas tebu dapat digunakan sebagai media pertumbuhan secara hidroponik. Tujuan dari penelitian ini adalah untuk mengetahui pengaruh jenis media tanam terhadap pertumbuhan dan hasil Peterseli (*Petroselinum crispum*) secara hidroponik dengan sistem NFT dan mengetahui jenis media tanam yang memberikan pengaruh terbaik terhadap pertumbuhan dan hasil tanaman Peterseli (*Petroselinum crispum*) secara hidroponik dengan sistem NFT. Penelitian ini dilaksanakan di Desa Polaman, Kelurahan Agrejo, Kecamatan Sedayu, Kabupaten Bantul, Daerah Istimewah Yogyakarta pada bulan Januari sampai Mei 2022 dan di Laboratorium Agronomi, Fakultas Agroindustri, Universitas Mercu Buana Yogyakarta. Penelitian disusun dalam Rancangan Acak Lengkap (RAL) dengan 4 perlakuan yaitu media tanam *rockwool*, sabut kelapa, sabut pinang dan ampas tebu. Parameter yang diamati meliputi tinggi tanaman, jumlah anak daun, lebar daun, bobot ekonomis, bobot segar, volume akar dan bobot kering tanaman. Hasil penelitian menunjukkan bahwa pengaruh jenis media tanam terhadap pertumbuhan berdasarkan analisis bobot kering dan hasil berdasarkan analisis bobot ekonomis total menunjukkan jenis media tanam *rockwool*, sabut kelapa, sabut pinang dan ampas tebu tidak mempengaruhi pertumbuhan dan hasil peterseli. Pada jenis media tanam *rockwool*, sabut kelapa, sabut pinang dan ampas tebu menunjukkan tidak adanya perbedaan nyata antar perlakuan terhadap pertumbuhan dan hasil peterseli.

Kata Kunci : Peterseli, hidroponik, sistem NFT, rockwool, sabut kelapa, sabut pinang, ampas tebu.

**THE EFFECT OF TYPES OF PLANTING MEDIA ON THE GROWTH AND
YIELD OF PARSLEY HYDROPONICALLY**

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ABSTRACT

*Parsley is a type of vegetable that is very rich in nutrients, containing iron, calcium, protein, folic acid, beta-carotene, chlorophyll, antioxidants, anti-bacterial substances, as well as vitamins A, B12 and C. The Nutrient Film Technique (NFT) hydroponic sistem is a new way of growing crops hydroponically. Hydroponic growing media is a medium made of materials or materials other than soil that is used as a place for plant roots to grow and develop. Various types of planting media, namely Rockwool, coconut fibers, areca fibers and bagasse can be used as hydroponic growth media. The purpose of this study was to determine the effect of planting media types on the growth and yield of Parsley (*Petroselinum crispum*) hydroponically with the NFT sistem and to determine the type of planting media that gives the best effect on the growth and yield of Parsley (*Petroselinum crispum*) hydroponically with the NFT sistem. This research was conducted in Polaman Village, Agrorejo Village, Sedayu District, Bantul Regency, Yogyakarta Istimewah Region from January to May 2022 and at the Agronomy Laboratory, Faculty of Agroindustry, Universitas Mercu Buana Yogyakarta. The research was arranged in a completely randomized design (CRD) with 4 treatments, namely rockwool planting media, coconut fibers, areca fibers and bagasse. Parameters observed included plant height, number of leaflets, leaf width, economic weight, fresh weight, root volume and plant dry weight. The results showed that the effect of the type of planting media on growth based on dry weight analysis and yield based on total economic weight analysis showed that the type of planting media rockwool, coconut fiber, areca fiber and bagasse did not affect the growth and yield of parsley. In the type of planting media rockwool, coconut fiber, areca fiber and bagasse showed no significant difference between treatments on the growth and yield of parsley..*

Keywords: Parsley, hydroponics, NFT sistem, rockwool, coconut fiber, areca nut fiber, sugarcane bagasse.