

Growth and Production of Antanan (*Centella asiatica* L.) in Various Compositions of Planting Media and AB Mix Nutrient Concentrations in Floating Raft Hydroponic Systems. planting media

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Abstract

Background - Antanan (*Centella asiatica* L.) is a herbal plant that has not been developed on a large scale, so it is not widely known by the Indonesian people. Antanan generally grows in plantations, fields or yards. One of the obstacles in antanan production is the shrinking of agricultural cultivation land so that cultivation using a floating raft hydroponic system with good planting media and nutrient concentration can be an alternative

Purpose - This study aims to determine the effect of nutrient concentration and planting media on the growth and production of antanan plants

methodology - This study used a completely randomized design (CRD) with two factors, namely the concentration of mixed AB nutrients consisting of five levels, namely 0ml/l, 2ml/l, 3.5ml/l, 5ml/l and 6.5ml/l. and the composition of the planting media consisting of three levels, namely 100% rice husk charcoal, 100% cocopeat, and rice husk charcoal + cocopeat 1:1.

Findings - The findings show that there is an interaction between the composition of the planting media and the concentration of nutrients on the variables of the stolon diameter and the number of stolons of the antanan plant, and the higher the concentration of AB mix nutrients, the more intense the leaf color becomes and the lower the concentration of AB mix nutrients, the more yellowish green the leaf color becomes.

Originality - This research was only conducted on antanan plants

Keywords: pegagan, rice husk charcoal, cocopeat
