GROWTH AND YIELD RESPONSE OF KALE (*Brassica oleraceae* var. sabellica) PLANTS AT VARIOUS AB MIX NUTRIENT INTERVALS AND TYPES OF HYDROPONIC GROWING MEDIA NFT

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ABSTRACT

Kale is a type of leafy vegetable that is popular and has high prospects. This study aims to determine the interval of AB Mix nutrient solution administration and the best planting media for kale growth and yield. The study was conducted in October-December 2024 at the Center for the Implementation of Agricultural Instrument Standards (BPSIP) Yogyakarta. The method used was a Split Plot Design with a Completely Randomized Design environment. The main plot is the interval of AB Mix nutrient administration (once a day, once every 2 days, once every 3 days) and the subplot is the planting media (rockwool and sponge). The research data were analyzed using Analysis of Variance (ANOVA) and further testing with the Least Significant Difference Test (LSD) at the 5% level. The results showed that there was no interaction between the AB Mix nutrient administration interval treatment and the type of kale plant planting media in hydroponics with the NFT system. The AB Mix nutrient administration interval of 1 day gave the best results in plant height, number of leaves, root fresh weight, shoot fresh weight, wet weight, economic weight, biological weight and harvest index. Rockwool planting media gives the best results in plant height, number of leaves, leaf color, root volume, root fresh weight, crown fresh weight, wet weight, economic weight, biological weight and harvest index.

Key words: AB Mix, planting media, kale, NFT hydroponics.