

**RESPONSE OF GROWTH AND YIELD OF PAGODA MUSTARD  
PLANTS (*Brassica narinosa* L.) TO AB MIX CONCENTRATION AND  
TYPE OF PLANTING MEDIA BY HYDROPONIC NFT SYSTEM**

By : Meri Fathurrohmah

Supervised by : Suwardi

**ABSTRACT**

Pagoda mustard is classified as a high economic value vegetable. Demand for pagoda mustard must be balanced with increasing production every season so that efforts to increase productivity are needed. Hydroponic cultivation by adjusting the nutrients and using the right type of planting media is expected to optimize the production of pagoda mustard. The study aims to determine the best concentration of AB Mix nutrients and the best type of planting media for the growth and yield of pagoda mustard and to determine the interaction. The method used was a field experiment organized using a Split Plot Design. The main plot was the concentration of AB Mix Nutrition 800, 1200 and 1600 ppm. Sub plots were the types of planting media rockwool, sponge, and cocopeat. Data were analyzed using ANOVA and then further tested using DMRT 5% level. There is an interaction between the treatment of nutrient concentration and planting media on the growth and yield of pagoda mustard plants in the parameters of plant height 1 and 3 weeks after planting, number of leaves 5 weeks after planting, plant fresh weight, economic fresh weight, and root fresh weight. The concentration of 1200 ppm gives good results in plant height 2, 4 and 5 weeks after planting, number of leaves 2, 3 and 4 weeks after planting, root volume, and storability. The concentration of 1600 ppm gave good results in plant height 2 weeks after planting and number of leaves 3 weeks after planting, root volume, and storability. Rockwool media gives good results on the parameters of plant height 2, 4, and 5 weeks after planting and the number of leaves 1, 2, 3, and 4 weeks after planting. Cocopeat media gives good results on the number of leaves 2, 3, and 4 weeks after planting.

**Keywords:** *pagoda mustard, ab mix nutrition, growing media, hydroponics*