

**APLICATION OF AB MIX AND PHOTOSYNTHETIC BACTERIA TO  
GROWTH AND YIELD OF PAGODA MUSTARD (*Brassica narinosa* L.)  
IN HYDROPONIC NFT SYSTEM**

By : Diega Rahasinatra  
Guided By : Ari Wijayani

**ABSTRACT**

Every year the land area is decreasing and the demand for mustard production is increasing, so alternatives are needed to increase mustard production. The research aims to determine the best concentration of AB Mix and PSB on the growth and yield of pagoda mustard greens. This research uses the Split Plot Design field trial method. The main plot is the AB Mix concentration which consists of 1100 ppm, 1200 ppm, and 1300 ppm. The subplots are PSB concentrations consisting of 5 ml/l, 10 ml/l, and 15 ml/l. Data were analyzed using a 5% level of variance. Followed by the Duncan Multiple Range Test (DMRT) with a level of 5%. The research results showed that there was an interaction between the concentration AB Mix and PSB treatments on the parameters of crown level and leaf length at 3 and 4 WAP. The AB Mix concentration of 1300 ppm gave the best results on the parameters of plant height at 3 and 4 WAP, number of leaves at 2, 3, and 4 WAP, crown level and leaf length at 1 and 2 WAP, and fresh crown weight. A PSB concentration of 15 ml/l gave the best results on the parameters of plant height at 3 WAP, number of leaves at 2, 3, and 4 WAP, crown level and leaf length at 1 and 2 WAP, and fresh shoot weight.

**Keywords :** AB Mix, photosynthetic bacteria, pagoda mustard, hydroponic