

Aplikasi Beberapa Kombinasi Media Tanam Terhadap Produksi Benih Melon Di *Smart Green House*. (Application of Several Combinations of Planting Media on Melon Seed Production in *Smart Green House*). Supervisor : Dwi Rahmawati SP, MP

ABSTRAK

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Along with population growth, the demand for melons in Indonesia is increasing. Melon seed production is currently still using conventional cultivation systems which are highly dependent on climate, season, and weather. The purpose of this research is to determine the effect of planting media application on melon seed production and melon seed quality. The research was conducted at the Smart Green House (SGH) of the Jember State Polytechnic, Jalan Mastrip, Sumbersari, Jember from December 2020 - February 2021. The materials used for this research consisted of cocopeat planting media and sand. The parameters observed in this research were plant length, number of leaves, amount of seeds per plant, total seed weight per plant, percentage of number of pithy seeds per plant, weight of 1000 seeds, germination capacity (GC), and mean germination time (MGT). The results show of significantly different results () on the parameters of plant length, number of leaves, amount of seeds per plant, total weight of seeds per plant, percentage of number of pithy seeds per plant, weight of 1000 seeds. Meanwhile, the parameters of germination capacity (GC) and mean germination time (MGT) show not significant different (NS). The treatment of planting media application concluded that the best combination of planting media from 5 levels of treatment was a combination of cocopeat and sand with a ratio of 50:50 (M3).*

Keywords : *Hydroponic Planting Media, Smart Green House (SGH), Cocopeat, Sand.*