

Pengaruh Perendaman Fungisida dan Lama Penyimpanan Terhadap Mutu Benih Kakao Asal MCC 02 (*Application of Fungicide and Duration of Storage on Cocoa MCC 02 Seed Quality*). Supervised by : Ir. Sri Rahayu, MP. and Indah Anita Sari, SP., M.Si

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ABSTRACT

This research aims to determine the effect of seed soaking in Trichoderma sp. solution and duration of storage on cocoa MCC 02 seed growth. This research was conducted at Greenhouse Kaliwining farm of Indonesia Coffe and Cocoa Research Institute, Rambipuju, Jember Regency in October 2018 to January 2019. This research was applied Completely Randomized Design (CRD) Factorial with 2 factors and 3 replications. The first factor was seed soaking consisted 2 levels, seed soaking in fungicide solution (P₀) and seed soaking in Trichoderma sp. solution (P₁). The second factor was duration of storage consisted 8 levels, 1 day (K₁), 2 days (K₂), 3 days (K₃), 4 days (K₄), 5 days (K₅), 6 days (K₆), 7 days (K₇), 8 days (K₈). The data result was analyzed by F test (ANOVA) and followed by LSD 5% or DMRT 5%. The result of this research shows that seed soaking in Trichoderma sp solution is significant on viability, water content, growth speed, growth simultaneously, height of plant, diameter of stem and number of leaves but non significant on mouldy seeds. The duration of storage is significant on viability, growth speed, growth simultaneously, height of plant, and diameter of stem, but non significant on number leaves and mouldy seeds. The interaction between seed soaking in Trichoderma sp. solution and duration of storage for 5 days is significant on viability value of 97,00%, growth speed value of 11,00%, growth simultaneously value of 43,33 %, height of plant in 12 weeks after plant value of 35,97 cm, and diameter of stem in 12 weeks after plant value of 5,86 cm

Key words : *Cocoa, Duration of Storage, Seed Growth, Trichoderma sp.*