Aplikasi Konsentrasi dan Lama Perendaman H_2SO_4 terhadap Perkecambahan dan Pertumbuhan Awal Bibit Kopi Arabika Lini S 795 (*Coffea arabica* L.). *(Application of Concentration and Soaking Duration of H_2SO_4 on Germination and Early Growth of Arabica Coffee Seeds Line S 795 (Coffea arabica L.).* Supervised by : Dosen Pembimbing Ir. Sri Rahayu, MP.

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ABSTRACT

This research aims to determine the effect of concentration, soaking duration, and interaction between concentration and soaking duration of H_2SO_4 on germination and early growth of arabica coffee seeds (Coffea arabica L.). *This research was conducted in December 2018 to April 2019 at field of State Polytechnic of Jember, Jember Regency, East Java. It was applied Randomized Complete Block Design with 2 factors and 3 replications. The first factor was concentration (K) consisted 3 levels, control (K_0), concentration of 10% ((K_1), 20% (K_2), and 30% (K_3). The second factor was duration of soaking consisted 3 levels, 15 minutes (L_1), 30 minutes (L_2), and 45 minutes (L_3). The data was analyzed by using Analysis of Variance (ANOVA) and followed by Duncan's Multiple Range Test (DMRT) 5% and LSD 5%. The result of this research shows that concentration of H_2SO_4 20% (K2) is significant on viability (100%), growth speed (5,38%/days) and growth simultaneously (86,67%). Duration of soaking (L) is non significant for all parameters. The interaction between H_2SO_4 concentration 20% and soaking duration of 45 minutes (K_2L_3) is significant on parameter weight of gross stover of 1,88 grams and dry stover of 0,54 grams.*

Key words : *Arabica Coffee, Concentration of H_2SO_4 , Duration of Soaking,*