

**Aplikasi Konsentrasi dan Lama Perendaman Larutan Giberellin (GA<sub>3</sub>) Terhadap Perkecambahan dan Pertumbuhan Awal Kopi Arabika Lini S795 (*Coffea arabica* L.)** *Application Concentration And Long Soaking Solution Giberellin (GA<sub>3</sub>) Against The Germination and Initial Growth Of Arabica Coffee S795 (*Coffea Arabica* L.).* **Advisor Ir. Sri Rahayu, MP**

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**ABSTRACT**

*This research aims to determine the proper concentration and soaking duration of GA<sub>3</sub> to the germination and early growth of arabica coffee Line S795. This research was conducted in January - May 2019 at Seed Technology Laboratory, State Polytechnic of Jember. The study was arranged used Factorial Randomized Complete Block Design (RCBD) consisting of 2 factors, the first factor consisted of 3 levels and the second factor consisted of 4 levels repeated 3 times. The first factor was the concentration of Giberellin solution consisting of control (K<sub>0</sub>), 100 mg/L (K<sub>1</sub>), 150 mg/L (K<sub>2</sub>), and 200 mg/L (K<sub>3</sub>). The second factor was the soaking duration of Giberellin solution which consists of 12 hours (W<sub>1</sub>), 18 hours (W<sub>2</sub>), and 24 hours (W<sub>3</sub>). The results of the research was analysed using ANOVA and followed by DMRT 5% or BNT 5%. From the test results shows the treatment of Giberellin (GA<sub>3</sub>) 150 mg/L is very significant on parameter germination power 75%, growth speed 5.56%/etmal, simultaneity growth 71.67%, plant height (30 HST 2.80cm and 120 HST 12.19cm), weight of stover (wet 2.72gr and dry 0.43gr). The treatment of the soaking of the Giberellin solution 150 mg / L (K<sub>2</sub>) is a significant on the germination power parameters of 89.17%. The interaction between concentration treatment and the immersion time of the Giberellin K<sub>1</sub>W<sub>1</sub> to K<sub>3</sub>W<sub>3</sub> solution is significant on the germination power parameter of 100%.*

**Key Word :** Arabica coffee lini S795, Giberellin, Germination, Growth..