

**The Effect Planting Media Composition and Dose of Mutiara
NPK Fertilizer of Robusta Coffee Seedling Growth
(*Coffea canephora* var. *robusta*)**

Supervisor Abdurrahman Salim, S.Si., M.Si.

Prinsa Ariestina

Plant Plantation and Cultivation Study Program Agricultural
Production Department

ABSTRACT

Coffee farmers in Indonesia on average cultivate robusta coffee, because robusta coffee is easy to adapt. However, the cultivation process often experiences obstacles in terms of low productivity. The causal factors are related to the planting media and fertilization of the seeds. Based on this, research was conducted regarding the comparative influence of the composition of planting media and various doses of Mutiara NPK fertilizer on the growth of robusta coffee seedlings. The research uses RAKF which consists 2 factors. Analysis of observation data using Anova, if the results are significantly different or very significantly different so a BNJ Advanced Test 5% will be carried out. The results of research showed that the use of various comparisons of planting media composition had a significant effect on the growth of robusta coffee seedlings in terms of plant height. Meanwhile, administering a dose of Mutiara NPK fertilizer had a significant effect on all observation parameters. The results of the BNJ Advanced Test 5% show that the number of leaf blades parameter N2 has highest average value 4,00. And the stem diameter parameter N3 has highest average value 2,60 mm and the root volume parameter N2 is the treatment the best with an average value of 5,08 ml. And the interaction between treatments had a significant effect on the plant height parameter (cm) and the results of the Advanced Test showed that the K3N2 interaction had the highest average plant height value (16,71 cm).

Keywords: *robusta coffee, productivity, planting media, Mutiara NPK fertilizer*