

**EFFECT OF TYPES OF MEDIA AND PGPR (*Plant Growth Promoting Rhizobacteria*) TO GROWTH OF PLAYING NURSERY SEEDS PALM COCONUT (*Elaeis guineensis* Jacq.) SIMALUNGUN VARIETY**

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***ABSTRACT***

The purpose of this study was to determine the effect of giving various media and PGPR fertilizer on the growth of oil palm seedlings in the main nursery phase. Implementation The study entitled "The Influence of Types of Media and PGPR Fertilizers(Plant Growth Promoting Rhizobacteria) on the Growth of Oil Palm Main Nursery Seeds(*Elaeis guineensis*Jack.) Simalungun variety." will be held from October to February 2023 at Agricultural Production Department Field Laboratory with a height of 104 meters above sea level. This research using a factorial randomized block design (RBD) consisting of 9 combinations treatment. The respective treatments are M1: Top Soil:Sand (1:1) M2: Top Soil : Sand : Coal Husk (2:2:1) M3 : Top Soil : Sand : Coal Husk (1:1:1) andP0 : no application PGPR P1 : PGPR 150 ml/l P2 : PGPR 300 ml/l. Observational data were analyzed using analysis of variance (ANOVA), and further tested with BNJ (Honestly Significant Difference) 1%. Result of research on the types of planting media and PGPR fertilizers had a verysignificant effect on diameter stems, and significantly affect the parameters of plant height and number of leaves. Treatment The best type of media is Top Soil: Sand: Husk Charcoal (1:1:1) (M3) and PGPR applications (300 ml/l) (P2).

***Keywords:*** *Oil Palm, PGPR*