

**TESTING *Trichoderma asperellum*, *Trichoderma harzianum* AND *Gliocladium*
sp. AGAINST OF BLACK POD DISEASE *Phytophthora palmivora* ON COCOA**

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ABSTRAK

Phytophthora palmivora Butl disease infects many parts of the cocoa plant including the fruit, causing pod disease. *Phytophthora palmivora* pod disease is an important disease in cocoa cultivation in the world, including Indonesia. One way to control this disease is to use antagonistic microorganisms. This study aims to determine the inhibition of the antagonistic fungi *Trichoderma asperellum*, *Trichoderma harzianum* and *Gliocladium* sp. against black pod disease *P. palmivora* in vitro. The study was conducted in the laboratory with an antagonism test, this test was carried out using a dual method on PDA media using a completely randomized design with three treatments and four replications. The results showed that up to 7 days after inoculation, *Trichoderma asperellum*, *Trichoderma harzianum* and *Gliocladium* sp. capable of inhibiting the growth of *P. palmivora* with inhibition percentages of 100%, 87% and 83% respectively

Kata kunci: cocoa, diseases, *Phytophthora palmivora*, black pod, *Trichoderma* sp,

