

ABSTRACT

THE EFFECT OF APPLICATION CHYTOSAN AGAINST COCOA POD ROT DISEASE SEVERITY

By

Ahmad Bazawi Alwie

The main disease that decrease in cocoa production is cocoa pod rot

(*Phytophthora palmivora* Butl). *P. palmivora* can control by Chytosan.

Aplication chytosan done in the field cocoa owned by the farmers in the Village

Wiyono Pesawaran from May to August 2011. The purpose of this reseach are to

know that chytosan can affect against cocoa pod rot disease, to know the

chytosan concentration that decrease cocoa pod rot disease severity and to know

the affect of chytosan concentration to wet and dry seed weight. The research was

arranged in random design group with six treatments those are chytosan

concentration 2,5%, 5%, 7,5% and 10%, metalaxyl 2% and control without

chytosan or metalaxyl. Each treatment was repeated three times and each group

performed on three different trees. The results are 1) chytosan 2,5% until 10%

can not affect inhibition cocoa pod rot disease severity on four weeks

observation, but chytosan 7,5%, 10% and metalaxyl 2% can affect cocoa pod rot

disease severity on fifth weeks observation 2) chytosan 7,5% and 10% are same as

metalaxyl 2% in decrease cocoa pod rot disese severity that are 86,66%; 80,00%,

and 57,66%, 3) wet and dry weight seeds can not affect by chytosan 2,5% until 10 % but affect by metalaxyl 2%.

Key word : Chytosan, *P. palmivora*, pod rot , cacao.