

USAGE OF SOME LOCAL *TRICHODERMA* sp. TO CONTROL *Rigidoporus microporus* CAUSE OF WHITE ROOT DISEASE AT RUBBER CROP (*Hevea Brasiliensis*)

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ABSTRACT

Rubber represent one of the agricultural important commodity good to international and also for Indonesia. Rubber agriculture growth in Riau specially in Kampar Regency there are problems in improving quality and quantity of rubber product for example attack of pest and disease. One of the most dangerous disease is root disease that is white root disease. White root disease emerge because of the new opening land for rubber plantation that not clean enough so that leave the roots picking that are decaying so that become the growing medium for white root. Strive operation of white root can be conducted by eliminated the infection source and usage of chemicals substrate but it's need very big expense. Usage of pesticide can generate environmental contamination, death of natural enemy, incidence of crop resistance and residu. Natural operation in overcoming damage of crop because of organisme effect in agriculture have developed and one of them is usage of *Trichoderma* sp. *Trichoderma* sp. have been known as a natural agent most effective to control crop disease which is because of soil mushroom. The objective of this research is to test the antagonisme ability of some dose of local *Trichoderma* sp. in controlling *Rigidoporus microporus* cause of white root disease at rubber crop. This research conducted from November 2006 up to June 2007 at Disease Laboratory of Faculty Of Agriculture Riau University. The parameter is to perceived speed of *Rigidoporus microporus* colony growth, speed of *Trichoderma* sp. colony growth, the *Trichoderma* sp. pursue ability to *Rigidoporus microporus* growth at medium of PDA (%). The result of this research can be summarized that *Trichoderma* sp. have the ability to pursue the growth of *Rigidoporus microporus*.

KEYWORDS : Rubber Crop, *Trichoderma* sp., *Rigidoporus microporus*