ABSTRACT

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GROWTH OF SOME ISOLATES OF *Trichoderma* spp. IN MEDIA CONTAINING TRIADIMEFON, SULFUR or UREA

This study was aimed to determine the ability of some isolates of *Trichoderma* spp. grow on media containing triadimefon, sulfur or urea. The hypothesis proposed in this study was that isolates of *Trichoderma* spp. are able to grow on media containing triadimefon, sulfur or urea. The research was conducted at The Laboratory of Plant Diseases Faculty of Agriculture, University of Lampung, from December 2008 until April 2009. This research used Completely Randomized Design with four treatments and three replicates. The Isolates consisted of four isolates of *Trichoderma*: isolate from the isolation of the land in the Panumangan, Tulang Bawang (T1); *Trichoderma* isolate isolated from rubber plantations in the area Panumangan, Tulang Bawang that have been applied with sulfur for white root control (T2); isolate from the basidia of fungus Coreolus found in Panumangan, Tulang Bawang (T3); and isolate from the collection of the Plant Clinic of Faculty of Agriculture, Unila (T4). Each of chemical was added to the media 6ml/L namely fungisida triadimefon, urea and sulfur. The data obtained, the diameter of *Trichoderma* spp. colonies were processed using ANOVA and continued by Least Significant Different (LSD) on the significances level 5%. The results showed that the four isolates were capable of growing on media containing urea or triadimefon, Coreolus isolate (T3) was the isolate that the largest colony diameter compared to the three other isolates. The addition of urea or triadimefon inhibited the growth of Trichoderma colonies but did not kill them, while in the media containing sulfur, the colony was thin and look transparent.