

Effect of media on growth and antagonistic activity of selected *Trichoderma* strains against *Ganoderma*

ABSTRACT

This study was conducted to determine the effect of culture media on the growth rate and antagonistic activity of *Trichoderma harzianum* strain 1132 and *Trichoderma virens* strain 128 in *Ganoderma* sp. The two growth media evaluated were potato sucrose agar (PSA) and potato dextrose agar (PDA). Growth rate was determined by the rate of spore density production. Significantly higher spore production was observed on PSA for *T. virens* strain 128 (9.12×10^{10}) and *T. harzianum* strain 1132 (8.58×10^{11}) compared to PDA with values of 6.82×10^{10} and 5.62×10^9 spores, respectively. Both strains showed the antagonistic activity against the wood decay fungus *Ganoderma*. However, the antagonistic activity higher in *Trichoderma* cultured on PSA media with antagonistic activity of 66% in *T. virens* strain 128 and 62% in *T. harzianum* 1132, respectively. These results suggest the significant potential for the use of PSA media as a growth and activity enhancer of *Trichoderma* strains used in biocontrol programs.