CELLULASE ENZYMES PRODUCTION FROM PISTACHIO HULL BY DIFFERENT STRAINS OF *TICHODERMA* FUNGI

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Abstract

Six strain of *Trichoderma* (*T. viride*, *T. harzianum*, *T. reesei*, *T. longibrachiatum*, *Trichoderma spp.135* and *Trichoderma spp.64*) were isolated and used for extracellular enzyme production. By product of Pistachio was used to enzyme production and extracellular protein production and endo-glucanase, exoglucanase, \(\beta\)-glucosidase and FPase activity was investigated. *T. harzianum* produces high levels of endo-glucanase, exoglucanase and total cellulase, which can be further improved by controlled culture conditions. This strain can be a good candidate for obtaining cellulases from lignocellulosic by products of pistachio hull.

*Keywords:* *Trichoderma spp.*, Pistachio hull, cellulase, enzyme activity.