WHEAT STRAW CONVERSION BY ENZYMA
GANODERMA LUCIDUM

Mirjana Stajic, Biljana Kukavica, Jelena Vukojevic, Jasmina Simonic, S
Duletic-Lausevic

Abstract

The purpose of this study was to resolve the question of whether varic
concentrations affect characteristics of selected G. lucidum ligninolytic
wheat straw fermentation. This is the first study reporting the presenc
activity in crude extract of G. lucidum culture, as well as isoforms prof
peroxidases. NH4NO3 was the optimum nitrogen source for laccase an
activity, while peptone was the optimum one for versatile peroxidase a
laccase activity were obtained by native PAGE and IEF separations fro
inorganic nitrogen source, and only two bands from medium containin
composition was not shown to affect isoenzyme patterns of Mn-oxidizi
of Mn-dependent peroxidase and three of versatile peroxidase were ol
separation, five isoforms of Mn-dependent peroxidase and only two of
observed. The results demonstrated that G. lucidum has potential for