
Mycelial Growth and Antibacterial Metabolite Production by Wild Mushrooms O.

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Abstract

Russula sp. and Pycnoporus cinnabarinus (wild mushrooms) were subjected to laboratory cultivation by spore germination and tissue culturing on Sabouraud dextrose agar plates. Subsequently, the growth and production of metabolite(s) were monitored in submerged fermentation for 7days using agar diffusion method. The result obtained showed that metabolite production peaked on the fourth day in Russula sp. and on the fifth day in Pycnoporus cinnabarinus with subsequent decrease in activity of the fermentation extract. Dry weight increases with fermentation time in both mushrooms.

Keywords

Wild mushroom, Spore germination, Tissue culturing, Antibacterial metabolite, production, fermentation, dextrose.