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Characterization and cultivation of *Psilocybe barrerae*

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ABSTRACT

A strain of *Psilocybe barrerae* (*Strophariaceae*) was isolated, characterized, and cultivated under laboratory conditions. Mycelial colonies were white to off-white, showing average growth rates of 3.9 mm/day on potato dextrose agar (PDA) and 3.6 mm/day on corn meal agar (CMA). The production of biomass varied from 0.2872 g dry weight/L/day (CMA) to 0.1353 g dry weight/L/day (PDA). One flush of fruit bodies, cultivated on a mixture of sand and compost as substrate, was produced reaching a biological efficiency of 28.9%. The morphology of cultivated fruit bodies was equivalent to that of wild mushrooms.

Key words: Cultivation, *Psilocybe barrerae*, substrates, traditional medicine.