

Characteristics of Oak Mushroom Cultivar, Bambithyang Developed by Golden Seed Project

Authors : Yeongseon Jang, Rhim Ryoo, Young-Ae Park, Kang-Hyeon Ka, Donha Choi, Sung-Suk Lee

Abstract : *Lentinula edodes* (Berk.) Pegler, oak mushroom, is one of the most largely produced mushrooms in the world. To increase the competitiveness of Korean oak mushroom, golden seed project is ongoing. In this project, we develop new oak mushroom varieties to increase its productivity, quality, disease resistance, and so on. Through the project, new oak mushroom cultivar, Bambithyang was developed by mono-mono hybridization method. The optimum temperature for mycelial growth was at 25°C on potato dextrose agar (PDA) media. For the mass production test, it was cultivated using sawdust media with sawdust block type for 100 days. The temperature for primordia formation and fruit body production was broad (between 11°C and 20°C) which is good for spring and fall. Each flush period lasted for 6-7 days and the highest fruit body production was recorded in the first flush. The fruiting is sporadic. The pileus was deep brown. Its diameter was 69.2 mm and width was 17.8 mm. The stipe was ivory. It was 14.7 mm thick and 54.7 mm long. We would continue to develop new varieties while increasing the market share of domestic spawn with this variety.

Keywords : *Lentinula edodes*, mono-mono hybridization, new cultivar, oak mushroom

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