

Screening of-Lyophyllum Decastes-Highly Productive Cultivable Strains

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In order to explore mycelial growth and fruiting body formation of *Lyophyllum decastes* on different media, ten cultivation media by using cottonseed hull, sawdust, corn cob etc. as main components were designed for seven strains. The results showed that the mycelial colour of all strains are mainly snow-white, and the formula of media using corn cob as main materials was better than that using cottonseed hull and sawdust for mycelial growth, but no fruiting body was formed. The cottonseed hull medium with a small amount of sawdust, plant leaves, humus or fermented material and wheat was beneficial for fruiting formation. The incubation period for fruiting formation of strain 3001 was 108 days and the highest yield was-214.80 g/bag. Fructification of the strains tasted occurs successively in order of 3001, 1035, 1004 and 1013. It was concluded that different medium composition had significant effect on the mycelial growth and fruiting body formation.

Key words : *Lyophyllum decastes*, medium composition, cultivated strain screening