

ABSTRAK

Zulfi Ali Akbar. 2020. Perbanyak Biakan Murni Jamur Tiram Putih (*Pleurotus Ostreatus*) Pada Media Air Cucian Beras Dengan Air Kelapa. Di bawah bimbingan Liberty Chaidir dan Yati Setiati.

Budidaya jamur tiram putih (*Pleurotus ostreatus*) terkendala oleh ketersediaan biakan murni f0 yang memiliki harga jual mahal dan hanya diperoleh ditempat tertentu. Mahalnya harga biakan murni f0 disebabkan alat dan media yang digunakan juga mahal, sehingga diperlukan media pengganti alternatif. Air cucian beras dan air kelapa diketahui memiliki nilai hara tinggi dan dapat menjadi substrat dasar untuk pertumbuhan miselium. Penelitian ini bertujuan untuk mengetahui pengaruh air cucian beras dengan air kelapa pada pertumbuhan miselium jamur tiram putih. Penelitian ini dilaksanakan pada bulan Juni 2019-Maret 2020 di Laboratorium Terpadu Fakultas Sains dan Teknologi UIN Sunan Gunung Djati Bandung. Metode yang digunakan adalah eksperimental dengan 11 perlakuan kombinasi air cucian beras (c) dengan air kelapa (k) yaitu c1k1 (20%+80%), c1k2 (20%+50%), c1k3 (20%+20%), c2k1 (50%+80%), c2k2 (50%+50%), c2k3 (50%+20%), c3k1 (80%+80%), c3k2 (80%+50%) dan c3k3 (80%+20%) yang diulang sebanyak tiga kali. Hasil penelitian menunjukkan bahwa media air cucian beras dengan air kelapa mempengaruhi diameter, kecepatan dan kualitas miselium. Pembentukan diameter dan kecepatan tumbuh mielium terbaik pada perlakuan 50% air cucian beras dan 50% air kelapa dengan diameter 7,5 cm dan kecepatan tumbuh 0,26 cm/hari. Perlakuan 50% air cucian beras dengan 50% air kelapa dapat dijadikan media alternatif kultur murni jamur tiram putih.

Kata Kunci : Air cucian beras, Air kelapa, Jamur tiram putih, Kultur jaringan, Miselium.



ABSTRACT

Zulfi Ali Akbar. 2020. *Pure Culture Multiplication of Oyster Mushroom (Pleurotus ostreatus) in Medium Rice Wastewater with Coconut Water. Under the guidance of Liberty Chaidir and Yati Setiati.*

White oyster mushroom (*Pleurotus ostreatus*) cultivation is constrained by the availability of pure f0 culture which has a high selling price and is only obtained in certain places. The high price of pure f0 culture is due to the expensive equipment and media, so alternative media are needed. Rice and coconut water are known to have high nutrient values and can be a basic substrate for mycelium growth. This study aims to determine the effect of rice wastewater with coconut water on the growth of white oyster mushroom mycelium. This research was conducted in June 2019-March 2020 in the Integrated Laboratory of the Faculty of Science and Technology of UIN Sunan Gunung Djati, Bandung. The method used was experimental with 11 treatment combinations of rice wastewater and coconut water (k) i.e. : 20%:80%, 20%:50%, 20%:20%, 50%:80%, 50%:50%, 50%:20%, 80%:80%, 80%:50% and 80%:20% which are repeated three times time. The results showed that rice wastewater medium with coconut water affected the diameter, speed, and quality of mycelium. The formation of the best diameter and growth rate of mycelium in the treatment of 50% rice washing water and 50% coconut water with a diameter of 7.5 cm and a growing speed of 0.26 cm/day. 50% treatment of rice waste water with 50% coconut water can be used as an alternative medium for pure white oyster mushroom culture

Keyword : Coconut water, Mycelium, Rice wastewater, Tissue culture, White oyster mushroom.

