RESPON PERTUMBUHAN MISELIUM JAMUR MERANG (*Volvariella volvacea* (Bull.) Singer) DALAM BEBERAPA FORMULASI MEDIA AGAR, MEDIA BIBIT INDUK DAN MEDIA BIBIT TEBAR

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ABSTRAK

Penelitian mengenai "Respon Pertumbuhan Miselium Jamur Merang (*Volvariella volvacea* (Bull.) Singer) Dalam Beberapa Formulasi Media Agar, Media Bibit Induk Dan Media Bibit Tebar" dilakukan pada bulan September 2016-Februari 2017 di Laboratorium Riset Mikrobiologi Jurusan Biologi, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Andalas, Padang. Penelitian ini bertujuan untuk menganalisis respon kecepatan pertumbuhan miselium Jamur Merang terhadap penambahan formulasi alami yaitu air kelapa, air rendaman jagung, air cucian beras, air rendaman jerami, air sari kentang dan air sari tauge dalam Media Kultur (Agar, F0), Media Bibit Induk (F1) dan Media Bibit Tebar (F2). Penelitian ini menggunakan metode eksperimen dengan 7 perlakuan. Data dianalisis secara deskriptif dan disajikan dalam bentuk grafik. Hasil penelitian ini menunjukkan pemberian formulasi alami memberikan pengaruh terhadap pertumbuhan miselium pada Media Kultur dan Media Bibit (bibit induk dan bibit tebar). Pemberian air sari kentang memberikan hasil terbaik pada Media Agar, Media Bibit Induk dan Media Bibit Tebar dengan kecepatan pertumbuhan 4.2 cm/ 6 HSI (hari setelah inokulasi) pada media agar, 12.5 cm/12 HSI pada media bibit induk dan 9.5 cm/10 HSI pada media bibit tebar.

Kata Kunci: *Volvariella volvacea, Pertumbuhan Miselium, Formulasi Alami, Media Agar, Media Bibit Induk, Media Bibit Tebar*

ABSTRACT

The Study of "Mycelium Growth Response of Paddy Straw Mushroom (*Volvariella volvacea* (Bull.) Singer) In Several Culture Formulation Media And Spawn Media" was conducted on September 2016-February 2017 at Microbiology Research Laboratory, Biology Department, Mathematics and Natural Science Faculty, Andalas University, Padang. The aim of this study is to analyze mycelium growth rate response of paddy straw mushroom with the addition of several natural formulation such as coconut water, corn soaking water, rice washing water, rice straw soaking water, potato extract water and bean sprout extract water in Culture Media (Agar, F0) and Spawn Media (F1 and F2). This study used experimnetal method with 7 treatment. Data were analyzed descriptively and obtained in graphic form. The result of this study shown that the addition of natural fomulation is give effect to mycelium growth in Culture Media as well as in Spawn Media. The addition of potato extract water showed the best result in Culture Media as well as in Spawn Media with growth rate 4.2 cm/6 DAI (day after inoculation) in Culture Media, 12.5 cm/12 DAI in F1 Spawn Media and 9.5 cm/10 DAI in F2 Spawn Media.

Key Words: *Volvariella volvacea, Mycelium Growth, Natural Formulation, Culture Media, Spawn Media*