

**PERTUMBUHAN DAN NILAI GIZI *Ganoderma lucidum* PADA MEDIA LIMBAH  
MANGIUM**  
*(Growth and nutritious values of *Ganoderma lucidum* cultivated on medium of  
mangium wastes)*

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**ABSTRACT**

Cultivation medium for *G. lucidum* was made of mangium sawdust, bark, and mixed of them, were composted with 10% rice bran, 5% grind corn, 2% lime, 0.5% gypsum and sufficient distilled water. Biological conversion efficiency (BCE) was calculated on the base of mushroom's weight divided by dried weight of the medium and presented in percentage. The results showed that the mycelium growth on spawn of mangium sawdust was slower than that of mangium bark, however spawn on the mangium sawdust possessed a better quality. Mycelium growth was spread entirely both on the surface of spawn medium and cultivation medium at 4 weeks after inoculation. The first harvesting was carried out at 64 days after inoculation. Production rates of *G. lucidum* HHBI-322, HHBI-328 and HHBI-337 were low i.e. 18.68 grams to 40.86 grams, with the BCE value between 9.8% to 17.1 %. Nutrition values, particularly protein and fat were varied about 9.7%-13.7% and 1.8%-4.5 %, respectively. Polysaccharide content, specifically glucan was around 6.95%-9.29 %.

**Key words:** Mangium bark, medium, mushroom, growth, biological conversion efficiency.

**ABSTRAK**

Media pertumbuhan *Ganoderma lucidum* masing-masing dibuat dari serbuk kayu atau kulit kayu mangium. Kedalam serbuk kayu atau kulit kayu dan campuran keduanya, ditambahkan dedak, menir jagung, kapur, gips masing-masing 10%, 5%, 2%, 0,5% dan air suling secukupnya. Efisiensi konversi biologi (EB) dihitung berdasarkan berat jamur yang dihasilkan dibagi bobot media kering, dinyatakan dalam persen. Hasil penelitian menunjukkan bahwa pertumbuhan miselium jamur pada media bibit serbuk gergaji kayu lebih lambat dibandingkan dengan pada media bibit serbuk kulit kayu mangium, namun kualitas bibit yang dihasilkan dalam media serbuk gergaji lebih baik. Pertumbuhan miselium pada media bibit dan pada media kultivasi telah merata pada umur 4 minggu setelah inokulasi. Tubuh buah jamur sudah dapat dipanen pada umur 64 hari setelah inokulasi. Produksi jamur *G. lucidum* HHBI-322, HHBI-328 dan HHBI-337 umumnya rendah yaitu 18,68 g – 40,86 g dengan nilai EB 9,77%–17,09%. Nilai gizi jamur terutama kadar protein dan lemak masing-masing berkisar antara 9,71%-13,65% dan 1,82%-4,50%. Polisakarida yang terdapat pada *G. lucidum* terutama glukosa berkisar antara 6,95%-9,29%.

**Kata Kunci:** Kulit mangium, jamur, pertumbuhan, efisiensi konversi biologi.