



RESEARCH PAPER

Mycelial biomass production of medicinal mushroom *Ganoderma P. Karst.*

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Abstract : The fruiting body, mycelia and spores of *Ganoderma* contain approximately 400 different bioactive compounds. At present, the demand for natural products with pharmacological activity and medicinal uses is markedly increasing and the submerged culture offer faster production of mycelia biomass with high nutrients and exopolysaccharide of medicinal importance in shorter period of time within reduced space and gets lesser chances of contamination with consistent quality. Mycelial biomass production of *Ganoderma* was carried out using five different liquid media viz., Glucose asparagine media (GLM), Hwang liquid media (HLM), Potato dextrose broth (PDB), Yeast wine media (YWM) and Glucose peptone liquid media (GPM). The highest dry weight was observed in yeast wine media (1.08g/300ml).

Key Words : Bioactive compound, Dry weight, Exopolysaccharides, Liquid media, Mycelial mat

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