



STUDY OF DIFFERENT GROWTH PARAMETERS IN *GANODERMA LUCIDUM*

Z. NASREEN¹, T. KAUSAR¹, M. NADEEM¹ AND R. BAJWA²

¹ Biotechnology and Food Research Center, PCSIR Labs. Complex, Lahore 54600, Pakistan.

² Department of Plant Pathology, University of Punjab, Lahore, Pakistan. E-mail: mnadeempk@yahoo.com

Accepted for publication December 24, 2004

ABSTRACT

Ganoderma lucidum was grown in several culture media, using four different concentrations of inoculum. The mycelia grew well in the potato dextrose medium at pH 5 and 25 C, followed by malt extract, Kirk medium + molasses, and Kirk medium + glucose. The yield of mycelial biomass (dry weight basis) in potato dextrose medium after 15 days was about 1.59 g/100 ml; in malt extract, 0.91 g/100 ml; in Kirk molasses, 0.68 g/100 ml; and in Kirk glucose was 0.38 g/100 ml. Mycelial growth of *G. lucidum* was significantly higher in case of 5 to 15 ml inoculum concentration.

Key words: *Ganoderma lucidum*, potato dextrose, malt, molasses, Kirk medium.
