

**KAJIAN NAUNGAN DAN NUTRISI TERHADAP PERTUMBUHAN DAN
KANDUNGAN RESERPINA PULE PANDAK
(*Rauwolfia serpentina* Benth.)**

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ABSTRACT

This research aims to study how far the effect of shading and nutrition on the pule pandak's growth and reserpine content. This research was taken place on January to October 2008 period and was conducted in BPP Mondromino, Pokoh Village, Wonogiri, with altitude 141 m above sea level, latosol soil and temperature average of 30 °C. This research used Completely Random Design consisting of two treatment factors. The first is shade, consists of three levels are 55%, 65%, and 75% density. The second is organic nutrition (20 ton/ha dosage) consists of four types are without nutrition (soil), cow manure nutrition, goat manure nutrition, and compost nutrition of enceng gondok. Thus, there are 12 treatment combinations that each treatment consists of six plants with three times replications. The observation included the number of leaves per plant, leave width, leave weight, plant height, root length, plant fresh weight, plant dry weight, and reserpine content. The result of research showed that the 75% shading treatment affects significantly to increase of leave number, leave width, plant height, plant fresh weight, plant dry weight, and reserpine content meanwhile the 65% shading treatment affects significantly to increase of leave weight. Compost nutrition of enceng gondok affects significantly to increase of leave number, leave width, leave weight, plant height, root length, plant fresh weight, plant dry weight, and reserpine content. The presence of interaction between the shading and nutrition affects significantly to leave number, plant height, plant dry weight, and reserpine content, while affects not significantly to leave width, leave weight, root length, and plant fresh weight. The variable mostly determining the reserpine content is the plant dry weight, the highest estimation of reserpine content can be achieved in the plant dry weight of 13.2 g with treatment combination of 75% shading and compost nutrition of enceng gondok.

Keywords: Shading, nutrition, reserpine, pule pandak, *Rauwolfia serpentina*