

EFEKTIFITAS BERBAGAI KONSENTRASI DEKOK DAUN KEMANGI (*Ocimum basilicum* L) TERHADAP PERTUMBUHAN JAMUR *Colletotrichum capsici* SECARA IN-VITRO



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The use of kemangi leaf as a medicine really has not been popular at society, because most of them do not know what this plants use for. Usually, they just use it as a mixture into their cooking. Actually, kemangi leaf has many uses those are stimulating circulation of blood, clearing a face with acne and solving fallen hair. Besides, it can be used to cure stomachache such as slight stomach upset, vomiting, fever and influenza. It also can be medicine to cure an infection (Anonymous,2001). Kemangi leaf is filled for about 46 % eugenol, eugenol belongs to phenol, phenol and the derivative have an antimicrobial capacity. Eugenol which is filled in kemangi leaf showed its activity as a strong fungicide. Eugenol can prevent premature ejaculation of semen, analgesic and anesthetic (Winarto,2003).

This research purposed to know the influence of giving decoction kemangi leaf (*Ocimum basilicum*) and an exact concentration to hamper the growth of *Colletotrichum capsici*. Parameter that is used in this research is the width of blocked zone diameter at *Colletotrichum capsici* that it is given decoction kemangi leaf. Kind of this research is truly experiment that is contained of six treatments, namely 5%,6%,7%,8%,9%,10% concentration with four times repetition and user control 0% and dithane as standard between the treatments. Data analysis uses one direction variant analysis and Duncan examination 5%. This research is done in Biology Laboratory University of Muhammadiyah Malang from 5 September to 16 Desember 2007.

The result of the research indicates that there is an influence of giving decoction kemangi leaf toward the differences from blocked zone at *Colletotrichum capsici* from Duncan analysis 5%, it is obtained that each of concentrations indicates the differences and the treatment of decoction kemangi leaf at 10% concentration gives the most effective influence to hamper the growth of *Colletotrichum capsici* because diameter that is formed is the biggest one and approaches control diameter with dithane giving. Diameter with treatments 10% is 11,74 mm and diameter with use dithane is 16,45 mm.