

PENGARUH DEKOK TEMULAWAK (*Curcuma xanthorriza*) TERHADAP PERTUMBUHAN BAKTERI *Aeromonas hydrophila* SECARA In Vitro



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Recently, one of bacterial illness that becomes a problem in waterfresh fish cultivation is the red spot illness or motil *Aeromonas hydrophila* Septicaemia (MAS). The way to cope this illness usually using chemical substance, but the uncontrolled used of this substance caused the bacteria resistance. Antibiotic have to be imported with the high price.

Because of the reason above, it is needed the new alternative treatment which is sever and cheaper, for example by using natural resourches such as temulawak (*Curcuma xanthorriza*).

The objective of this research is to know the influence of temulawak toward the growth *Aeromonas hydrophila* bacteria, it is done by measuring the blocked zone of the bacteria by using kinds of temulawak concertration. This research is done in medical laboratory in Muhammadiyah university of Malang, at july 21 up to August 02 2008. This research using random sampling and the result analyzes by using one-way variant analysis. It is using Chloriform antibacteria as a control (+) and 25%, 30%, 35%, 40%, 45%, and 50% as treatment with five times repeated.

The result of this research show that there is effect of dekok temulawak(*Curcuma xanthorriza*) Toward The Growth of *Aeromonas hydrophila* Bacteria By in vitro. Dekok temulawak (*Curcuma xanthorriza*) at 50% concentration gives the most effective influences to reduce the growth of *Aeromonas hydrophila* bacteria.