ABSTRACT

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ANTIBACTERIAL ACTIVITY TEST OF EXTRACT FUNCTIONAL DRINK FROM KARUK LEAVES (*Piper sarmentosum* Roxb. ex Hunter) WITH ADDITION LIME (*Citrus aurantifolia* Swingle) JUICE

(xvii + 88 pages: 42 figures, 6 tables, and 28 appendices)

In Indonesia, karuk leaves often used as medicinally natural and able to cure acute respiratory tract infection. Hence required study further to know the influence of extract karuk leaves on the activities of antibacterial *Staphylococcus aureus* and *Pseudomonas aeruginosa*. First of all, measurements antibacterial activities with days of maceration karuk leaves executed which will produce the best obstruent against *Staphylococcus aureus* bacteria and *Pseudomonas aeruginosa*. After that, choose the dosage of extract karuk leaves based on MBC value which will be made to drink from extract karuk leaves with the ratio of lime juice : honey. Furthermore, antibacterial activities extract karuk leaves, total phenolic, total flavonoid and sensory evaluation will be testing. The results will show that seven day of maceration has its strong obstruent antibacterial with value for each MIC and MBC for *S. aureus* 10.338±0.369 mg/ml and 41.350±1.477 mg/ml and for *P. aeruginosa* 8.563±0.316 mg/ml and 34.251±1.033 mg/ml. Formulation drink of extract karuk leaves who has its obstruent antibacterial with strong ratio of lime juice: honey 1:2 and dose of extract 3 MBC.

Keywords : Antibacterial, extract drink, honey, karuk leaves, lime juice

References : 91 (1991-2016)