

Formulasi dan Efektivitas Gel Antiseptik Tangan Minyak Atsiri Lengkuas (*Alpinia galanga* (L.) Willd.)

Title	Formulasi dan Efektivitas Gel Antiseptik Tangan Minyak Atsiri Lengkuas (<i>Alpinia galanga</i> (L.) Willd.)
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Abstract	The use of antiseptic hand gel with regards to paradigm that is healthy as well as clean practical, as an attempt to avoid the onset of infection. The volatile oil of <i>Alpinia galanga</i> rhizomes are known active as antibacterial. Three formulation of gels containing of 1 mL of galangal oil were made with variations of carbopol 940 from 0.5% - 2 %. Antiseptic test were done using replica methods. Data of viscosity, spread power, and adhesion were analyzed using one way ANAVA. Data of effectiveness was analyzed using one way ANAVA and if there is any differences, it will be continued by using HSD Tukey. The results showed that viscosity of gels were pseudoplastic flows. Spread power of gel preparations increased, adhesion and viscosity decreased during storage. All gel preparation showed the effectiveness of antiseptic gels because be able to reduce the number of bacterial colonies. Effectiveness of antiseptic formula that contains of carbopol 0.5% can reduce the number of colonies 70% and did not differ from the positive control which can reduce the number of colonies up to 79.37%.
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