

Formulation of handsanitizer with antibacterials substance from n-hexane extract of soursop leaves (*Annona Muricata* Linn)

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Abstract	<p>One of the plants which are efficacious as antibacterial is the soursop leaves. Soursop leaves were extracted by maceration using n-hexane. The extract was evaporated using rotary evaporator. Soursop leaves extract was then formulated in a gel dosage form. This study aims to formulate hand sanitizer from soursop leaves extract based on Growing Minimum Inhibitory Concentrations (MIC) of n-hexane extract of soursop leaves, and to know the evaluation result of gel dosage with the active substance of soursop leaves extract. Testing of physical properties of the gel includes organoleptic test, dispersive power test, homogeneity, pH, and consistency test. Antibacterial activity was tested by using a diffusion method. The evaluation of the gel showed SNI standards which were able for topical use. The organoleptic test resulted that the dosage is odorless, transparent and gel. Homogeneity test resulted that all gel dosage concentrations are homogenous. The pH tests at concentrations of 1, 5 and 10 ppm respectively are 5.38 to 6.22; 5.48 to 6.28; and from 5.29 to 5.90. The dispersive power test resulted for 6.47 to 7 cm; 6.20 to 6.87 cm; and 6.09 to 6.59 cm. The consistency test resulted that all gel dosages are consistent in gel form. Gel dosage with extract concentrations of 1, 5 and 10 ppm can inhibit the growth of bacteria <i>P. acne</i> with antibacterial activity of 3.53; 3.26 and 2.20 mm.</p>
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