Pengembangan Formula Sediaan Gel Antiseptik Tangan Ekstrak Daun Sirih (Piper betle Linn)

Abstrak:

The objectives of this study were to improve the stability and acceptability of piper leaves extract gels by adding antioxidant and emollient and was to know which basis of gels could give the optimum stability and acceptability. The extract was prepared traditionally by boiling the leaves in aquadest to obtain the concentration of 25% b/v. Gels was made using 3 basis of gels: Carbopol 940, polyvinyl alcohol (PVA), CMC Na. The gels were evaluated for its pH, viscosity, colour and its fragrance during 8 weeks. Evaluation for its acceptability was carried out for smoothness, dryness, the coolness effect and stickiness. The results showed that there was no changes in performance of the gels (colour, fragrance and clearance) during 8 weeks. The evaluation of pH and viscosity showed good result, the pH changed only 0.05 to 0.15 with variation coefficient 0.31% to 1.13% respectively. The changes of gels viscosity had variation coefficient less than 6%, except F-6 had a variation coefficient 6.77%. The results of acceptability test showed that carbopol base gels have higher point for smoothness, the coolness effect and stickiness than PVA and CMC Na.

Keyword:
piper leaves extract, gel, Carbopol 940, polyvinylalcohol, CMC Na