

## ***ABSTRACT***

### **FORMULASI MASKER GEL *PEEL-OFF* DARI EKSTRAK DAUN SIRIH (*Piper betle L.*) DAN BUAH BELIMBING WULUH (*Averrhoa bilimbi L.*)**

**Miftakhul Khoiroh**

Acne is one of the most common facial problems, the emergence of acne not only interferes with the appearance of the face which is less attractive to look at, but also makes the skin uncomfortable because of the pain caused by pathogenic bacteria which in general cause infection of acne growth and one of the targets of treatment. acne by killing bacteria or inhibiting the growth of bacteria which can be treated with natural antibacterial activity derived from green betel leaf extract (*Piper betle L.*) and star fruit extract (*Averrhoa bilimbi L.*). This study aims to determine the physical characteristics of the gel peel off mask preparation by determining the best formula using various different concentrations of Carbomer 940 as a gelling agent of 1%, 1.5% and 2%. This study uses an experimental method. Examination of the physical characteristics of the gel peel off mask preparation included organoleptic, homogeneity, pH, dispersion, and drying time. The data obtained were compared with the requirements in the parameter literature and analyzed using SPSS. The results of the research on peel off gel mask preparations with variations of carbomer 940 had no effect on the organoleptic test and homogeneity test. But the effect on the pH test, the higher the concentration of carbomer 940, the greater the value the pH of the preparation is increasingly acidic, and the lower the concentration of carbomer 940, the pH value of the preparation is increasingly alkaline. The spreadability of the test is getting higher the concentration of carbomer 940 the distribution power value of the preparation is getting smaller, and the lower the concentration of carbomer 940 the greater the distribution power value of the preparation big. Likewise with the drying time test, the higher the concentration of Carbomer 940, the faster the preparation time and the lower the concentration of Carbomer 940, the longer the preparation time.

*Keywords: acne, green betel leaf extract, star fruit extract, gelling agent, carbomer*