ABSTRACT

Rasjid, Irmadani. 2015. Formulation of Exfoliation Gel Made from Papaya's Latex using the Hydroxypropyl Methycellulose (*HPMC*) as the Gelling Base. Scientific Writing. Study Program of Diploma of Pharmacy, Department of Pharmacy, Faculty of Health Science and Sports, State University of Gorontalo. The principal supervisor was Mohammad Adam Mustapa, S.Si., M. Sc. And Co-supervisor was Nur'ain Thomas, S.Si., M. Si., Apt.

HPMC or Hydroxypropyl Methycellulose is a derivate from cellulose that could be used as the gelling base. Compared to other cellulose derivate, HPMC has the clearer appearance, and is able to form the film coating at the surface of the skin, thus it helps the exfoliation process. Exfoliation of the removal of dead skin cells could be done naturally or chemically to help ease the growing process of the new skin layers to be cleaner. The papaya latex (*Carica Papaya* L.) contains papain that trusted to be able to lift the dead skin cells. This research was an experimental laboratory research to find out whether or not the papaya latex can be formulated into gel and to find out the physical stability of the exfoliation gel that uses the HPMC as the gelling base. This research used different variation of HPMC concentrate, 1%, 1.5%, and 2%. This research showed that throughout the process, the most stable concentrate of the HPMC was the 2% concentrate, in which, based on the organoleptic, homogeneity, viscosity, and pH tests, this concentrate showed to be most stable among the three concentrate.

Keywords: Exfoliation, gel, Papaya Latex, HPMC