

Effect Of Carbomer 940 Concentration to Physics And pH Characteristics Of Aloe Vera Soothing Gel

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Abstract

Soothing gel is a multi-purpose gel which can be used for many purposes include prevention of dry skin. This research aims to investigate the change of the physics characteristics and pH of Aloe vera soothing gel. Concentration ratio of carbomer 940 as gelling agent and triethanolamine as the basis gel is 1:1. This research compares three different formulas that contain different variation of carbomer concentration which were formula I with 0.6% concentration, formula II with 0.8% concentration, and formula III with 1% concentration. The parameters of physics characteristics and pH were observed. The parameters are organoleptis, viscosity, flow characteristics, dispersive capability, density, and pH. The research is conducted in three replication in each formula. The result shows that all formulas fulfilled all specifications. The carbomer concentration affect the physical parameter characteristic of the soothing gel, but it did not affect the pH of soothing gel. Formula I is the best formula based on soothing gel specification.

Keywords: characteristics_1, soothing gel_2, carbomer_3, triethanolamine_4, Aloe vera_5