

**POLYTECHNIC OF HEALTH TANJUNGPUR
PHARMACEUTICAL DEPARTMENT
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Cream Formulation of Combination of Aloe Vera Gel (Aloe vera L.) and Moringa Seed Oil (Moringa oleifera L.).

xviii + 48 pages, 8 tables, 6 images, and 9 attachments

ABSTRACT

The skin is one of the body's organs that functions as a protective barrier to prevent water and electrolyte loss that can cause skin dehydration. As the outermost organ, the skin is also constantly in contact with solar radiation and environmental substances, which encourage free radicals in the skin. Research conducted by Akhtar N et al. 2011 showed that aloe vera (Aloe vera L.) reduces Transepidermal Water Loss (TEWL) levels and increases moisture content by reducing the amount of water that evaporates from the skin. Aloe vera concentration of 10% can be a formula in the form of a cream. Moringa contains 46 powerful antioxidants, compounds that protect the body from free radicals. One of the ingredients in Moringa oil (Moringa oleifera L.) is oleic acid which functions as a moisturizer and antioxidant benefits for the skin. Moringa seed oil (Moringa oleifera L.) has a high oleic acid content (68–76%); Moringa seed oil concentration of 4% can be a formula in the form of a cream.

This study aims to obtain a cream preparation of a combination of aloe vera gel (Aloe vera L.) 8% and Moringa seed oil (Moringa oleifera L.) 4%, 8%, and 12%. Then each concentration was evaluated for cream quality, including organoleptic, homogeneity, spreadability, pH, and stability. The research conducted is experimental. The evaluation results were analyzed using univariate analysis.

The results obtained showed that the cream combination of aloe vera gel 8% and Moringa seed oil 4%, 8%, and 12% was white, had a characteristic odor, and had a semi-solid texture. All formulas produce a homogeneous cream with a dispersion diameter of 5.1 – 6.1 and a pH value of 5.1 – 5.4. The cream preparation of the combination of aloe vera gel and moringa seed oil is stable during storage. All cream formulas meet cream dosage requirements.

Keywords : Cream, Aloe vera, Moringa Seed Oil

Reading List : 48 (1978-2020)



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