



Formulation and Development of Two-Phase Facial Cleansing System

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ABSTRACT

The present work was undertaken to formulate and develop Two-Phase Facial Cleansing system to serve gentle cleansing feel with a unique way of application and attractive container. Two phase cleansing system was developed containing emulsion with Sodium bicarbonate and gel with Citric acid. The reaction between sodium bicarbonate and citric acid results in the formation of water and bubbles of CO₂ which gives delightful chunks that bubbles on the skin giving a refreshing feel and therapeutic benefit because it is formulated with unique chemistry and exclusive packaging. The formulation was carried out with 5 different trials of emulsion and 4 different trials of gel and finalized a stable system with emulsion (F-5) and Gel (F-4). Both the phases i.e. gel with citric acid and emulsion with sodium bicarbonate, were filled in a two-way container so that when the actuator button is pressed both the phases come out on the skin together as a final product. Both phases were evaluated for functional parameters as per BIS for Skin Creams (IS 6608:2004) and for gel pH, colour, odour, and consistency. The product was subjected to an accelerated stability study to check the stability of the product with respect to colour, odour, and pH. Subjective evaluation of the product was carried out on a panel of human volunteers. The study showed that a two-phase facial cleansing system gives excellent cleansing effect with improved skin condition in a joyful manner.

Keywords: Two-Phase facial Cleansing System, Sodium bi-carbonate emulsion, Citric acid gel.

I. INTRODUCTION

At the end of a long day, nothing feels quite as good as cleansing the face. As the first step in skincare rituals is removing every trace of dirt, sweat, and makeup which allows the skin to breathe, and helps to repair and renew skin by itself [1]. Having a spotless surface also helps other skincare products to penetrate the skin more deeply and perform their tasks more efficiently [2]. The two-phase facial cleansing system contains two products with unique characteristics and different pH. It governs the self-foaming effect on the skin when applied together which feels like quick gentle cleansing to the skin. A two-phase facial cleansing system can prove the best way to reward the skin for making a tough fight against pollution and stress throughout the day for all skin types in any weather [3]. People like those delightful chunks that bubble and crackle on the skin with a refreshing feel and therapeutic benefit in a unique way because it is formulated with unique chemistry and packed in an iconic two-way container that is capable of storing and discharging two kinds of