

Formulation and Evaluation of Herbal Face Serum

Khan Talha N¹, Pawar Shankar B², Dapkekar Sambhaji A³, Shinde Pallavi M⁴, Datkhile Sachin V⁵

Students, Samarth Institute of Pharmacy, Belhe, Maharashtra, India^{1,2,3}

Department of Pharmaceutics, Samarth Institute of Pharmacy, Belhe, Maharashtra, India^{4,5}

zigmamax007@gmail.com

Abstract: *Wrinkles on the face and skin ageing are unfavourable effects of photodamage and UV radiation. Serum offers quick absorption and the capacity to penetrate deep layers of the skin, as well as a non-oily finish and a deep formula with a high concentration of active ingredients. The goal of this research was to create a serum using polyherbal extract based on these qualities. Face serum made of aloe vera gel, glycerin, and olive oil is a highly concentrated beauty product. Face serum made of aloe vera, glycerin, and honeybee venom is a highly potent cosmetic. When we use aloe vera, we obtain not only immediate beauty effects but also psychological satisfactions because serum has the potential to absorb quickly and enter deeper layers. Common uses for aloe vera gel include the treatment of various skin conditions, sunburn, minor cuts, insect bites, and wound healing. It also has anti-inflammatory, anti-bacterial, and anti-fungal properties. Bee venom, a defence poison made by bees, is said to promote collagen and blood vessel growth. The physicochemical characteristics, pH, globule size, and consistency of the facial serum were assessed. The results of the stability investigation revealed that the globule size, homogeneity, and visual appearance did not change.*

Keywords: Polyherbal, Anti –bacterial, Collagen

REFERENCES

- [1]. Cho JM, Lee YH, Baek RM, Lee SW J, Effect of platelet rich plasma on ultraviolet B induced skin wrinkles in nude mice, *PlastReconstrAesthetSurg*, 2011; 64(2): e31-9.
- [2]. Begoun P, *The original beauty bible (skincare facts for ageless beauty)*, United State book trade publisher group, west 1700 fourth street Berkeley, California. Edition 1st, 2009; 113.
- [3]. M. Itrat, Zarnigar, Aloe vera a review of its clinical effectiveness, *International research journal of Pharmacy*, 2013; 4(8).
- [4]. S. Ojha, K. Sonkar, M. Pandey, S. Saraf, Aloe vera gel: A potent nutraceutical, *Journal of natural pharmaceuticals*, 2011; 2(1): 36-39.
- [5]. Agarwal S, Sharma TR, Aloe vera and its therapeutic efficacy, *Asian journal of Pharmacy and life science*, 2011; 1(2): 195-205.
- [6]. Urvasi N and Bhardwaj R.L, Aloe vera for human nutrition, health and cosmetic use, *International research journal of plant science*, 2012; 3(3): 38-46.
- [7]. Kokate C.K, Purohit AP and Gokhle SB. *Pharmacognosy*, Nirali publication, edition 50, p 95.
- [8]. Han SM, Lee KG, Pak SC, Effect of cosmetics containing purified honey bee, *J Integr Med*, 2013; 11(5): 320-6.
- [9]. RCA Ribeiro, S Maria AG Barreto, EA Ostrosky, PA Rocha-Filho, LM Verissimo and Márcio Ferrari, Production and characterization of cosmetic nanoemulsion Containing *Opuntia ficus-indica* (L.) Mill Extract as Moisturizing Agent, *Molecules*, 2015; 20: 2492-2509.
- [10]. Sanela M. Savic, Nebojsa D. Cekic, Sasa R. Savic, Tanja M. Ilic, Snezana D. Savic. 'All-natural' anti-wrinkle emulsion serum with *Acmella oleracea* extract: A design of experiment formulation approach, rheology and in vivo skin performance/efficacy evaluation. 2021.
- [11]. Mumtaz BT M. Sultan Suhai Buddeen. *Optimization, Stability and Characterization of Face Serum Formulation*. 2018.
- [12]. Melati Septiyanti, Lilis Liana, Sutriningsih, Bayu Kumayanjati, and Yenny Meliana. Formulation and evaluation of from red, brown and green algae extract for anti-aging base material. 2019, 2175(1).



- [13]. Gabriella Baki, And Kenneth S. Alexander, Ph.D.: Introduction to Cosmetic Formulation and Technology; The University of Toledo, College of Pharmacy and Pharmaceutical Science; 2-3.
- [14]. Shi, V., Tran, K. and Lio, P. (2012). A comparison of physicochemical properties of a selection of modern moisturizers: hydrophilic index and pH. *J Drugs Dermatol.* 11, 633-636.
- [15]. J.M. Gillbro& M.J. Olsson, the melanogenesis of skin Lightening agent-existing and new approaches *International Journal of Cosmetic Science*, 2011,33,210-221.
- [16]. Drallos and thaman, "Cosmetic formulation of skin care products" volume 30, 167-180.
- [17]. <http://www.skinbiology.com> Leveque and Agache "Ageing skin, properties and functional changes"
- [18]. https://en.m.wikipedia.org/wiki/olive_oil