

Formulation and Evaluation of Face Serum

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Abstract: *Wrinkles on the face and aging of the skin are an undesirable effect of photodamage and ultraviolet radiation. Serum has a quick absorption and ability to penetrate deep layers of the skin, as well as a non-oily finish and a deep formula with a very high amount of active ingredients. Based on these properties, the purpose of this work was to make serum using polyherbal extract. Aloe vera gel, glycerin, olive oil face serum is a highly concentrated cosmetic product. When we use aloe vera we get not only immediate cosmetic effect but also psychological satisfaction. Aloe vera gel is commonly used to treat various skin ailments, sunburn, minor cuts, insect bites, and is also used as a wound healing, anti-inflammatory, anti-bacterial, and anti-fungal effect. Olive oil has anti-inflammatory properties and is used as a skin moisturizing agent. It also has anti-oxidant properties that can prevent premature aging. Facial serum was tested for its pH, physical appearance, spreadability, viscosity, microbial testing, cyclic temperature test, etc. The results of the stability study show that there was no change in visual acuity, homogeneity.*

Keywords: Face serum, Anti-inflammatory, Evaluation, Premature aging, Penetrate, Active Substances, Polyherbal.

REFERENCES

- [1]. Smriti Ojha, Surabhi Sinha, Swadhapriya Das Chaudhari, Hina Chadha. Formulation & Evaluation of Face Serum Containing Bee Venom and Aloe vera gel. 2019, 8(2), 1100-1105.
- [2]. Shan Sasidharan, Pyarry Joseph, Junise. Formulation and Evaluation of Fairness serum using Polyherbal Extract. 2014, 4(3), 105-112.
- [3]. Thanapron Amnuait, Suphatsa Khakhong, Pasarat Khongkow. Formulation Development & Skin Evaluation of Face Serum containing Jellose from Tamarind Seeds. 2019, 2456-9119.
- [4]. S. Budiasih, I Masyitah, K. Jiyauddin, M Kaleemullah, A. D. Samer. Formulation and Characterization of Cosmetic Serum Containing Argan oil as Moisturizing Agent. 2018, 297-304.
- [5]. Akshay D. Thakur. Formulation and Development of De Pigment Serum Incorporating Fruits Extract. 2017, 2(12), 330-382.
- [6]. Silvia Surini, Helmy Mubarak, Delly Ramadan. Cosmetic Serum Containing Grape Seed Extract Phytosome: Formulation and in Vitro Penetration Study. 2018, 10(2), S51-S55.s
- [7]. Maria Teresa Sanz, Celia Campos, Massimo Milani, Monica Foyaca, et al., Biorevitalizing Effect of a Novel Facial Serum Containing Apple Stem Cell Extract, Pro-Collagen Lipopeptide, Creatine, and Skin Aging Signs. 2016, 15, 24-30.
- [8]. Tina-Hua Xu MD, John ZS Chen MD, Yuan-Hong Li MD, Yan Wu MD, et.al., Split-Face Study of Topical 23.8% L-Ascorbic Acid Serum in Testing Photo-Aged Skin. 2012, 11(1), 51-56.
- [9]. W. Philip Werschler MD, Nathan S. Trookman MD, Ronald L. Rizer PhD, et. al., Enhance Efficacy of Facial Hydrating Serum in Subject with Normal or Self-Perceived Dry Skin. 2011, 1385-1394.
- [10]. Aurora Garre, Mridvika Narda, Palmira Valderas-Martinez, Jaime Piquero, Corinne Granger. Antiaging Effects of a Novel Facial Serum Containing L-Ascorbic acid, Proteoglycans and Proteoglycan Stimulating Tripeptide: Ex Vivo Skin Explant Studies and In Vivo Clinical Studies in Woman. 2018, 11, 253-263.
- [11]. Zoe Diana Draelos, Isabel Diaz, Jin Nmakoong, Joanna Wu -Thomas Boyd. Efficacy Evaluation of a Topical Hyaluronic Acid Serum in Facial Photoaging. 2021, 1385-1394.
- [12]. Miss Payal Pramod Jagtap, Miss Bhavana Ravindra Desale, Mr. Vishal Ashok Chaudhari, et.al., Formulation and Development of Anti-Acne Serum Using Euphorbia Hirta. 2020, 2(12), 171-179.

- [13]. 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.
- [14]. Mumtaz BT M. Sultan Suhai Buddeen. Optimization, Stability and Characterization of Face Serum Formulation. 2018.
- [15]. 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).
- [16]. 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.
- [17]. 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.
- [18]. 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.
- [19]. Drallos and thaman, "Cosmetic formulation of skin care products" volume 30, 167-180.
- [20]. <http://www.skinbiology.com> Leveque and Agache "Ageing skin, properties and functional changes"
- [21]. https://en.m.wikipedia.org/wiki/olive_oil.