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Formulation and Evaluation of Antifungal Pelargonium graveolens Soap

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Abstract: Skin disorders are most serious public health issues because they affect both peoples and communities. Fungi grows as a yeasts, molds or a combination of both. Antifungal medicines treat fungal infections. Fungus in the soil, air and on your skin can cause yeast infections, ringworm, and nail and skin infections. Antifungal medication includes soaps, creams, ointments, gels, powders and oral medications which can treat fungal infection of our skin. The herbal medication like Pelargonium graveolens essential (Geranium) oil are used for Research project because it relieve itchy, dry, flaky skin. Antifungal soaps are formulated with the Geranium oil which helps to prevent the fungal infections. It contains ingredients that make your skin resistant to infections. It is having property of Antifungal which can reduce the growth of fungus and treat fungal infections. This formulation applying easily on our affected area of our body. Geranium oil contains Geraniol and citronellol oil in it which can be give effective results on infectious tissues. Using procedure we formulate the antifungal geranium soap and perform the physical parameter and evaluation tests. After all we can concluded that, the P. graveolens can influence the yield of oils, their chemical composition as well as their Antifungal, Antioxidant and Antibacterial activities.

Keywords: Pelargonium graveolens, Citronellol, Geraniol, Antifungal, Soap

REFERENCES

- [1]. Mativandlela SP, Lall N, Meyer JJ (2005) Antibacterial, antifungal and antitubercular activity of (the roots of) Pelargonium reniforeme (CURT) and Pelargonium sidoides (DC) (Geraniaceae) root. South African Journal of Botany 72: 232-237.
- [2]. Kabera J, Mugiraneza JP, Chalchat JC, Ugirinshuti V (2013) Chemical Composition and antimicrobial effect of the essential oil of Pelargonium graveolens (Geranium Rosat) grown in Butare (Rwanda) towards formulation of plant-based antibiotics. Journal of Microbiology Research 3: 87-91.
- [3]. Mahboobi M, Feizabad MM, Safara M (2008) Antifungal activity of essential oils from Zataria multifora, Rosmarinus officinalis, Lavandula stoechos, Artemisia sieberi and Pelargonium graveolens against clinical isolates of Candida albicans. Pharmacognosy Magazine 4: 15-18.
- [4]. Dorman HJ, Deans SG. Antimicrobial agents from plants: antibacterial activity of plant volatile oils. J Appl Microbiol. 2000;88(2):308–16.
- [5]. Seidel V, Taylor P (2004) In vitro activity of extracts and constituents of Pelargnoium against rapidly growing mycobacteria. International Journal of Antimicrobial Agents 23: 613-619.
- [6]. Ben Hsouna A, Hamdi N. Phytochemical composition and antimicrobial activities of the essential oils and organic extracts from Pelargonium graveolens growing in Tunisia. Lipids Health Dis. 2012;11:167.
- [7]. Dzamic AM, Sokovic MD, Ristici MS, Grujic SM, Mileski KS, Marin PD. Chemical composition, antifungal and antioxidant activity of Pelargonium graveolens essential oil. J Appl Pharm Sci. 2014;4(3):1–5.
- [8]. Naeini AR, Nazeria M, Shokri H (2011) Antifungal activity of Zataria multiflora, Pelargnoium graveolens and Cuminum cyminum essential oils towards three species of Malassezia isolated from patients with pityriasis versicolor. Journal of Medical Mycology 21: 87-91.
- [9]. Dorman HJ, Deans SG (1999) Antimicrobial agents from plants: antibacterial activity of plant volatile oils. Journal of Applied Microbiology 308-316.
- [10]. Boukhatem MN, Kameli A, Saidi F (2013) Essential oil of Algerian rose-scented geranium (Pelargonium DOI: 10.48175/IJARSCT-5859

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- graveolens): Chemical composition and antimicrobial activity against food spoilage pathogens. Food Control 34: 208-213.
- [11]. Carmen G, Hancu G (2014) Antimicrobial and antifungal activity of Pelargonium roseum essential oils. Advanced Pharmaceutical Bulletin 4: 511-514.
- [12]. Hsouna AB, Hamdi N (2012) Phytochemical composition and antimicrobial activities of the essential oils and organic extracts from Pelargonium graveolens growing in Tunisia. Lipids in Health and Disease.
- [13]. Ghannadi A, Bagherinejad MR, Abedi D (2012) Antibacterial activity and composition of essential oils from Pelargonium graveolens L'Her and Vitex agnus-castus L. Iranian Journal of Microbiology 4: 171-176.

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