

Review on herbal soap

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Abstract

The end of our study to develop the herbal aseptic cleaner by using cold process system and having antimicrobial agent. Herbal cleaner was prepared using coconut oil painting, castor oil painting, neem oil painting, lavender oil painting, rose oil painting etc. The herbal expression was prepared and estimated for the analysis of pH, humidity content, rasing indicator, froth retention time, saponification, TFM(total adipose matter) answerable matter, antimicrobial testing using different attention of cleaner result comparing with standard. The herbal cleaner has satisfactory antimicrobial results as compared to antibiotic. Also, canvases used are added to treat colourful skin infection and for diurnal operation.

Keywords: Polyherbal soap; Antimicrobial; Hand sanitizer

1. Introduction

The word "ornamental" comes from the Greek word "kosm tikos," which means having the capability to plan and embellish.(1) As cosmetics evolved throughout the course of mortal history, a harmonious narrative about their onsets surfaced. In neolithic times (3000 BC), man utilised colour as decoration to allure the creatures he wanted to hunt. He also used colour to shield himself from attacks by the adversary by decorating his body and colouring his skin to scarify the adversary (whether man or beast). (2) The medicines and Cosmetics Act defines cosmetics as anything that are meant to be rubbed, poured, sprinkled, scattered, introduced into, or else applied to the mortal body or any portion of it for washing, beautifying, enhancing attractiveness, or changing the appearance.

Skin is the largest sensitive organ in the body. It serves as a hedge that protects the body organs and gathers sensitive data from the surroundings. also, it aids in keeping the body's temperature at a healthy position. Different distinctive cells and structures can be set up in the skin. The hypodermis, dermis, and epidermis are the three primary layers. Each subcaste contributes in a unique way to how the skin works as a whole (3). As skin imparts a technical function to body good, it's necessary for us to keep it down for skin conditions and alignments. Skin conditions are a current illness. It harms people of all periods, including babe and the senior, and does so in several different ways. Infections, disinclinations, sun exposure, injuries, and other factors can all lead to skin issues(4). Ever since the foremost times, people have employed medicinal shops as a form of treatment. colorful medicinal shops' leaves, stems, and roots have been used as a natural cure to treat a diversity of distemperatures and afflictions. Indeed if numerous factory- grounded treatments have been replaced by synthetic druthers ayurvedic products nonetheless stand out for their effectiveness and safety(5).Theanti-oxidant, anti-bacterial, cytotoxic, anti-microbial, hypotensive, anti-diuretic, anti-inflammatory, anti-spasmodic, anti-diabetic,anti-hemorrhagic, andanti-helminthic rates of multitudinous sauces are discovered with high nutritive value. Owing to their high medical value, cost- effectiveness, vacuity, and comity, objectification of natural products to a medication helps in treating virtually all conditions and skin issues(6). The active composites which give these shops their remedial benefits are insulated and used topically in creams, detergents, canvases , and ointments to

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treat skin conditions like acne, eczemas, injuries, and ringworms as well as for ornamental and anti-microbial purposes. The remedial benefits of shops are used in a variety of phrasings for both medical and ornamental purposes(7).

Herbal cleaner medication is a drug or medicines it contain Antibacterial and antifungal agents which substantially uses of part of shops similar as like leaves, stem, roots and fruits to treatment for a injury or complaint or to achieve good health⁶. This medication retain antimicrobial property are administered topically and available to apply in colorful forms like creams, embrocation gel, cleaner, solvent excerpt or ointment. The variety of creams and cleaner parcels have been used to treat colorful skin disorders(8). substantially skin infection are caused by fungi, staphylococcus aureus and streptococcus species⁶. Ethnomedically, juice and excerpt from leaves of the shops are topically applied as antimicrobial and anti-inflammatory agents in treatment of skin complaint including eczemas, ringworm and pruritus(9). The succulent gel form is used to diseases of psoriasis. Crude medication of adulatory factory are suitable to soften the skin epidermis enhance lesser penetration and drawing acne and also promote mending and resolution by snappily in time. In this review composition herbal cleaner containing neem, tulsi, shikekai and reetha as natural factory constituents and this content gives or shows antibacterial antifungal and anti-inflammatory exertion. In this cleaner, neem is main emulsion, and shows medicinal parcels. Neem splint and its excerpt parade immunomodulatory anti-inflammatory, antiulcer antimalarial, antifungal antibacterial antioxidant anticarcinogenic property. Tulsi has got the topmost medicinal value. tulsi to be effective for diabetis they reducing blood glucose position tulsi also used in severe acute respiratory pattern. Juice of its leaves gives relief in cold fever bronchitis and cough. Tulsi reduce stress, enhance stamina relief inflammation and also shows antifungal exertion so tulsi is also used as main emulsion in this herbal cleaner. The main antifungal exertion of Tulsi serves to be salutary in cleaner formulation(10). Reetha is an exceptional cleaner. Hence it's a perfect cover for cleaner and facewash due the presence of saponin. It's also good for use on sensitive skin. A combination of Reetha and Chickpeas gives a gentle and enriching experience to the skin it has exertion parcels, thus, it keeps skin moisturized and cool. Reetha prevents the skin from drying and keeps it soft and supple it also helps to treat eczema and psoriasis. Shikekai is quit effective in treating colorful skin infection like scabies and also used as a anti wrinkles property (11).

2. Literature survey

- Telange- Patil P.V et al, 2022 “ Bacterial skin infection are most common among people, taking significant attention for treatment and also to maintain healthy skin some herbal factory excerpt have antibacterial exertion (12) ”
- R.Margret Chandira et al, 2022 “ Herbal cleaner has been used traditionally for treating several epidermal dysfunctions, similar as eczema, psoriasis, and acne and helps to boost vulnerable response in towel of affected skin area.(13) ”
- Patel Anu et al, 2022 “ Herbal cleaner was prepared using coconut oil painting, castor oil painting, neem oil painting, lavender oil painting, rose oil painting, and NaOH(lye) and different excerpts were included into introductory saponification response. (14)”
- Bothe Saurav et al 2022 “ Ayurvedic cosmetics are also known as the herbal cosmetics the natural content in the sauces doesn't have any side effect on the mortal body most herbal supplement are grounded on several botanical constituents with long histories of traditional or familial drug operation. Among the multitudinous botanical constituents available in the request moment(15)

3. Skin Types and introductory Skin Care

The conditions for the introductory skin care

- Cleansing agent, which remove the dust, dead cells and dirt that chokes the pores on the skin. Some of the common cleaners include vegetable canvases like coconut, sesame and win oil painting.
- Use of Toners The colors help to strain the skin and keep it from being exposed to numerous of the poisons that are floating in the air or other environmental adulterants. Some of the sauces used as colors are witch hazel, geranium, savant, bomb, ivy burdock and essential canvases .
- Moisturizing The moisturizing helps the skin to come soft and supple. Moisturizing shows a healthy gleam and are less prone to aging. Some of the herbal moisturizers include vegetable glycerin, sorbitol, rose water, jojoba oil painting, aloe vera and iris.

4. Most common skin disease

Most common skin diseases are Eczema, Acne, Rashes, Psoriasis, Allergy, dry skin, urticarial etc.

4.1. Content of the soap

4.1.1. *Neem*



Figure 1 Neem

- Botanical name- *Azadiracta indica*.
- Part typically used- Leave.
- Color- Green.
- Constituents- flavonoids, Alkaloids, Azadirone, nimbin, nimbidin, terpenoid, steroids, tannic acid and saponins

4.1.2. *Alovera*



Figure 2 Aloe Vera

- Biological name- Aloe Vera.
- Common name- Aloe barbadensis Miller.
- Chemical constituents- vitamin, enzyme, minerals, sugars, lignin, saponin, salicylic acid and amino acid. Part typically used- leaves
- Color- Green.

4.1.3. Turmeric



Figure 3 Turmeric

- Biological name: *Curcuma longa*
- Common name: haldi
- Chemical constituents: protein, fat, Mineral and Carbohydrates.
- Part typically used: root
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4.1.4. Vitamin E



Figure 4 Vitamin E

- Rejuvenates and restores dehydrated skin
- Moisturizes the skin
- Reverses premature skin aging
- Lightens dark spots
- Acts as a cleansing agent
- Prevent wrinkle

4.1.5. Lavendar essential oil (Flavouring agent)



Figure 5 Lavendar essential oil

- Antioxidant protection
- Used as a diabetes natural treatment
- Promotes healthy skin and hair
- Improve sleep
- Relieves pain

4.1.6. RITHA



Figure 6 Ritha

- Botanical name: sapindus mukorossi
- Part typical used: seed
- Colour: Brown
- Uses: Detergent, surfactant
- Description:- The fruit is a small leathery skinned drup 1 to 2 cm in diameter, yellow ripening blackish , containing 1 to 3 seeds

4.2. Advantages of herbal

- Natural constituents Herbal detergents are generally made from natural factory- grounded constituents similar as sauces, essential canvases , and botanical excerpts. These natural constituents are frequently gentle on the skin and may help to soothe and nourish the skin without causing vexation or blankness.
- Hypoallergenic Herbal detergents are frequently hypoallergenic, meaning they're less likely to beget antipathetic responses compared to synthetic detergents that may contain harsh chemicals and artificial spices.
- Environmentally Friendly Herbal detergents are generally considered to be more environmental friendly compared to synthetic detergents, as they're frequently biodegradable and don't contain dangerous chemicals that may harm submarine life or contaminate the terrain.
- Aromatherapy Benefits numerous herbal detergents contain essential canvases , which can give aromatherapy benefits. These essential canvases may help to relax the mind, hoist the mood, and give a sense of well- being during the bathing process.

4.3. Disadvantages of herbal

- Variable Quality Herbal detergents are available in a wide range of brands and phrasings, and the quality may vary. Some herbal detergents may contain lowerquality constituents or warrant the asked efficacy, which can affect their performance.
- Limited Lather Herbal detergents may not lather as much as synthetic detergents due to their natural constituents. While lather isn't inescapably an index of drawing efficacy, some people may prefer a rich lather during their bathing routine.
- Shorter Shelf Life Herbal detergents may have a shorter shelf life compared to synthetic detergents, as they don't generally contain preservatives. This means that they may spoil or come less effective over time, especially if not used within a certain period.
- Advanced Cost Herbal detergents may be more precious compared to synthetic detergents, as they frequently contain advanced- quality natural constituents. This can make them less affordable for some consumers, especially those on a tight budget.
- Limited Vacuity Depending on your position, herbal detergents may not be as extensively available as synthetic detergents, which are mass- produced and readily available in utmost stores.

5. Conclusion

Grounded on the study results it can be concluded that herbal cleaner can be formulated using cold process system, taking different parameters in consideration as that of skin condition and as that of herbal capabilities and its exertion.

Compliance with ethical standards

Disclosure of conflict of interest

There is no conflict of interest among the authors.

References

- [1] Hughes, G.R., J.Soc. Cosmet. Chem., 1959, X, 159.
- [2] Encyclopaedia Britannica, 14th Edn; 1929.
- [3] Kolarsick PAJ, Kolarsick MA, Goodwin C. Anatomy and physiology of the skin. J Dermatol Nurs Assoc. 2011; 3(4):203-13. doi: 10.1097/JDN.0b013e3182274a98.
- [4] Solanki R. Treatment of skin diseases through medicinal plants in different regions of the world. Int J Biomed Res. 2011; 2(1):73. doi: 10.7439/ijbr.v2i1.82.
- [5] Ruckmani K, Krishnamoorthy R, Samuel S, Kumari HL. Formulation of herbal bath soap from Vitex negundo leaf extract. J Chem Pharm Sci. 2014; 2115(2):974.
- [6] Saikia AP, Ryakala VK, Sharma P, Goswami P, Bora U. Ethnobotany of medicinal plants used by Assamese people for various skin ailments and cosmetics. J Ethnopharmacol. 2006; 106(2):149-57. doi: 10.1016/j.jep.2005.11.033, PMID 16473486.
- [7] Kareru PG, Keriko JM, Kenji GM, Thiong'o GT, Gachanja AN, Mukiira HN. Antimicrobial activities of skincare preparations from plant extracts. Afr J Tradit Complement Altern Med. 2010; 7(3):214-8. doi: 10.4314/ajtcam.v7i3.54777, PMID 21461148
- [8] Knapp S, Peralta IE. The tomato (*Solanum lycopersicum* L., Solanaceae) and its botanical relatives. Compendium of Plant Genomes. 2016: (7-21). doi: 10.1007/978-3-662-53389-5_2.
- [9] Anjali RS, Divya J. Sapindus mukorossi: a review article. J Pharm Innov. 2018; 7:470-2.
- [10] Verma RK. Taxonomical study of *Acacia nilotica* (linn) wild (a dye yielding plant) in Churu district. World J Pharm Res. 2017; 6(10):1347-54. doi: 10.20959/wjpr201710-9408.
- [11] Klimek Szczykutowicz M, Szopa A, Ekiert H. Citrus limon (Lemon) phenomenon-a review of the chemistry, pharmacological properties, applications in the modern pharmaceutical, food, and cosmetics industries, and biotechnological studies. Plants (Basel). 2020; 9(1):119. doi: 10.3390/plants9010119, PMID 31963590.
- [12] Formulation and Evaluation of Herbal Soap Patel Anu*, Patel Anar, Patel Jahanvi and Bhavsar Hemal, IJSRR 2022, 11(2), 42-72, ISSN: 2279-0543
- [13] Sumit K, Vivek S, Sujata S, Ashish B. Herbal cosmetics: used for skin and hair. Inventi J 2012; 3:1-7.
- [14] Varsha M Chaudhari Department of Microbiology, Studies on antimicrobial activity of antiseptic soaps and herbal soaps against selected human pathogens 5(6): 201-204 2016.
- [15] Kareru, P. G., Keriko, J. M., Kenji, G. M., Thiong'o, G. T., Gachanja, A. N., and Mukiira, H. N. (2010). Antimicrobial activities of skincare preparations from plant extracts. African Journal of Traditional, Complementary and Alternative Medicines, 7(3).