

“A Review on Herbal Lip Balm: A Natural Solution for Lip Protection and Care”

Shruti K. Bhagyawan¹, Sakshi A. Temak², Om R. Mandule³, Komal Sabale⁴

Student^{1,2,3} Assi. Professor⁴

Department Of Pharmacy, Mrs. Saraswati Wani College Of B. Pharmacy, Ganegaon.

Tal. Rahuri, Dist. A. Nagar, Maharashtra, India.

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ABSTRACT

Cosmetics have always been in high demand, with a growing preference for products derived from natural sources. Among these, lip balms are widely used not only to enhance the beauty of lips and add a glamorous touch to makeup but also to promote lip health. Unlike conventional formulations based largely on synthetic chemicals that may cause adverse effects, natural and cosmeceutical-based lip balms offer a safer alternative. Cosmeceuticals, which combine cosmetics with biologically active ingredients, are recognized for their dual role in improving appearance and providing therapeutic benefits. Their incorporation into lip balm formulations delivers nourishment, protection, and treatment for various dermatological concerns, thereby serving as both a beauty aid and a functional product for maintaining healthy lips.

Keyword: Natural lip care , Moisturizing agent , Healing Properties , Cell Regeneration , Protective barrier , Soothing agent.

I. INTRODUCTION

Cosmetics have become an integral part of modern lifestyles, with a growing preference for natural and environmentally friendly products. Herbal cosmetics, derived from medicinal plants and natural ingredients, are widely used due to their pharmacological properties, including antimicrobial, anti-inflammatory, and cytostatic effects, and are considered safer than synthetic alternatives. Lip coloring and care are ancient practices, now modernized through products like lipsticks, lip jellies, and lip balms, which are available in diverse shades and textures. Among these, natural lip balms have gained popularity for their ability to prevent dryness, protect lips from environmental damage, and maintain lip health. Unlike other body parts, lips lack hair follicles, sebaceous glands, and sweat glands, making them more vulnerable and in need of protection and

moisture. Consequently, herbal lip products, often enriched with natural dyes from sources like Beta vulgaris, Piper betel, Dragon fruit, and Amaranth, are in demand as they minimize side effects while providing effective care.

Advantages of Natural Lip Balm :

1. Natural lip balms help maintain the health and enhance the natural appearance of your lips.
2. Lip balms enriched with natural sun protection ingredients safeguard lips from harmful UV rays.
3. These products are suitable for everyone, regardless of gender.
4. They provide relief and protection for lips prone to dryness, cracks, or cold sores.
5. The balm glides smoothly on the lips, forming a protective barrier that shields delicate lip skin from environmental stressors like sun, pollution, and dryness.
6. Natural lip balms soothe and revitalize lips, easing irritation caused by colds, flu, or seasonal allergies.
7. Using a natural lip balm supports overall facial appearance and contributes to healthier skin.

Disadvantages of Natural Lip Balm:

1. Poor-quality ingredients can damage lips by causing dryness instead of moisturizing.
2. Frequent use may lead to dependence on the lip balm.
3. Natural or homemade lip balms often have a shorter lasting effect, requiring repeated application.
4. Some products prioritize appearance over health benefits, potentially reducing the natural color, softness, and shine of the lips.
5. Natural colors and flavors are harder to obtain and may affect product stability.
6. Natural oils can be greasier, more likely to clog pores, and less easy to spread evenly

Ingredients:

Sr.no.	Name of Ingredients	Uses
1.	Candelilla wax	Base, provide texture and helps create a protective barrier.
2.	Kokum butter	Emollient, deeply hydrates.
3.	Karanja seed oil	Natural SPF, anti-microbial.
4.	Carrot seed oil	Strong SPF, regenerationskin cells.
5.	Alovera gel powder	Healing,hydrating agent.
6.	Hibiscus powder	Natural colorant & Antioxidant.
7.	Vitamin E	Preservative,anti-oxidant

II. MAIN INGREDIENT

Carrot seed oil: Strong SPF, Cells regenerations.

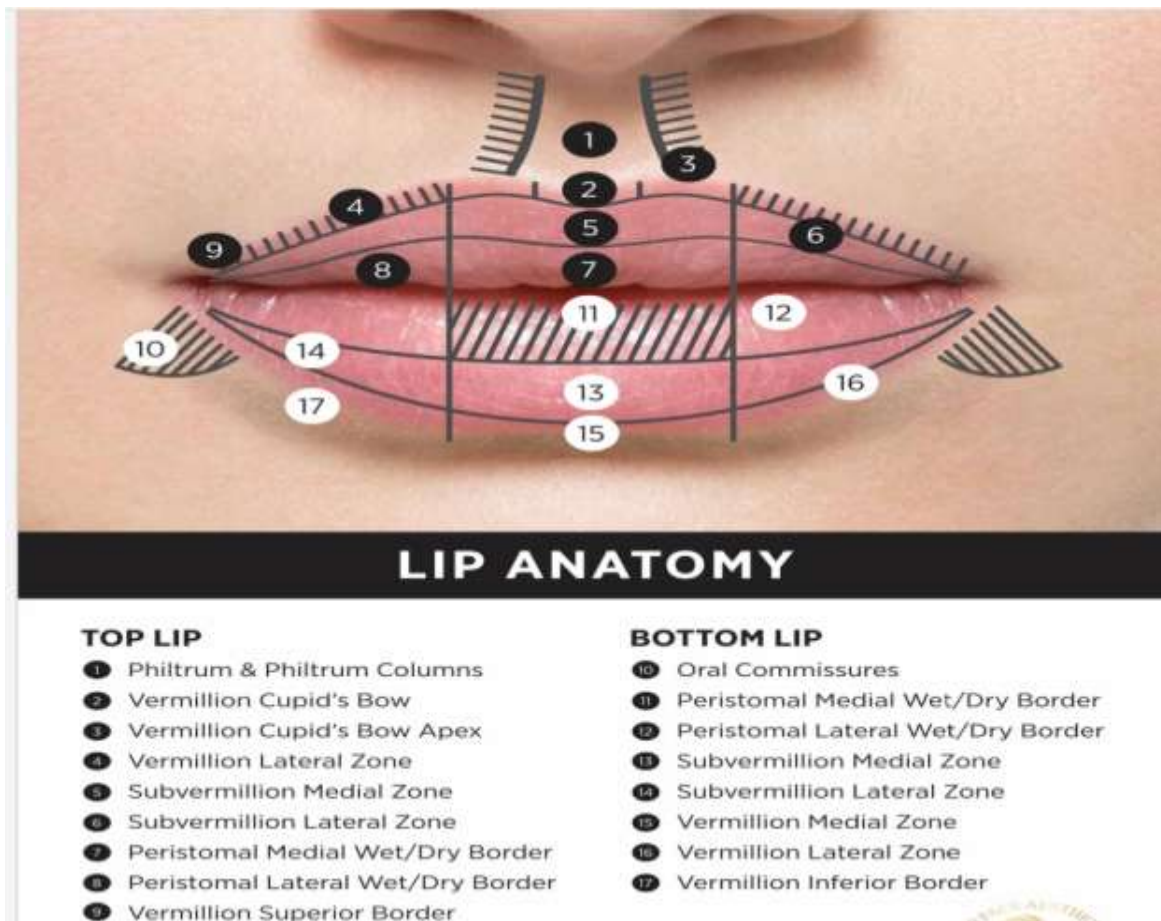


- Botanical Name Daucus carota
- Kingdom Plantae
- Order Apiases
- Family Apiaceae
- Genus Daucus
- Species D-carota
- Parts used Seeds
- Chemical constituents α -pinene, β -pinene, camphene, sabinene, myrcene, γ -terpinene, limonene, geranyl acetate, carotol, β -carotene, vitamins

Anatomy of lips

The lips are specialized organs essential for grasping, sucking, and speaking, composed of multiple layers including skin, superficial fascia, the orbicularis oris muscle, and surrounding areolar and mucous tissues. The edges are covered by a red mucous membrane that merges with the skin and contains numerous vascular papillae and tactile bodies, reflecting inward at the gum level to form midline folds. The lower lip is innervated by the

mental nerve, which supplies the mucous membrane, skin, and fascia, while lymphatic drainage occurs into glands above the hyoid bone and the submandibular glands. Labial glands, located in the submucosa around the mouth, secrete mucous fluid for lubrication, and obstruction of their ducts can lead to mucous cysts. This complex anatomy supports both functional and sensory roles, making the lips critical in oral health and cosmetic applications.



Lip disorders

1. Inflammation

Cheilitis is an inflammatory condition of the lips that often affects the corners of the mouth, causing pain, burning, redness, cracking, and scaling. This condition can result from a deficiency of vitamin B2 (riboflavin), which is essential for the maintenance and repair of skin and mucous membranes. The symptoms indicate irritation and breakdown of the lip tissue, and if left unaddressed, may lead to discomfort or secondary infections. Management involves correcting the nutritional deficiency through diet or supplementation, maintaining lip hydration, and using topical agents to relieve inflammation and promote healing. Recognizing these signs early is important for effective treatment and prevention of complications.

2. Blisters

Blisters on the lips can manifest as raised areas or hard lesions and may occasionally indicate serious conditions, including forms of skin cancer. Other types of blisters may appear as symptoms of

underpinning medical issues, similar as infections caused by the herpes simplex contagion or syphilis. also, some lip blisters, like keratoacanthoma, develop without a easily linked cause, pressing the variety of implicit origins and the significance of medical evaluation for proper opinion.

3. Lip swelling

Lip swelling occurs when the apkins of the lips come enlarged, frequently due to antipathetic responses to certain foods, drinks, specifics, cosmetics like camo, or airborne annoyances. When the detector is linked and removed, the swelling generally resolves, but in numerous cases, the cause remains unknown. Medical conditions similar as heritable angioedema can beget recreating occurrences of swelling, whilenon-hereditary factors like erythema multiforme, sunburn, exposure to cold or dry climates, or physical trauma can also contribute. patient or unexplained lump may indicate an beginning condition and should be estimated by a healthcare professional.

4. Sun damage

Sun damage can beget the lips, particularly the nethermost lip, to come hard and dry. The appearance of red spots or a clear white achromatism on the lips indicates damage that may increase the threat of developing cancer latterly. This type of damage can be minimized by using a lip attar with sunscreen or by guarding the face from dangerous sun shafts with a wide- brimmed chapeau.

Evaluation Parameters

• Organoleptic parcels

The expression was estimated for its organoleptic parcels, including appearance, colour, and odour, through visual and olfactory observation. Texture and unity were assessed by pressing a small quantum between the fritters to descry coarse patches and thickness, while skin feel — covering stiffness, greasiness, and grit — was also examined. These evaluations give a comprehensive understanding of the expression's sensitive and physical characteristics, icing its quality, uniformity, and stoner adequacy.

Texture

The lip attar 's texture was estimated using the AMETEK Brookfield CT- 3 Texture Analyzer, with a spherical TA39 inquiry attached to the force detector. This setup is well- suited for cosmetics and allows accurate dimension of the product's firmness, spreadability, and resistance to distortion, furnishing sapience into its tactile quality and performance during operation.

Color

The lip attar 's color was assessed using a Konica Minolta CR- 400 chromometer, which measured its brilliance, greenishness, and yellowness. This analysis handed objective data on the visual appearance of the expression, helping to insure thickness and appeal in the final product.

• PH

The pH of the medication was measured by dispersing 1 g of the sample in 25 ml of distilled water and using apre-calibrated Mettler Toledo pH cadence. The dimension was repeated three times to insure delicacy and thickness.

• Spreadability

The spreadability of the expression was estimated using a slide test, where the product was placed between two blades and a cargo applied to

observe how unevenly it spread. Visual assessment concentrated on subcaste uniformity, with grading as Good(homogenous), Intermediate(relatively invariant with some gaps), or Bad(uneven).

• Stability test

The lip attar expression was tested for stability over 30 days at room(25 ± 2 °C), elevated(40 ± 2 °C), and cooled(5 ± 2 °C) temperatures. Organoleptic parcels and spreadability were assessed on days 7, 15, and 30 to cover any changes.

III. CONCLUSION

The conclusion explains that lip attar is designed to cover and hydrate the lips, precluding blankness, cracking, and vexation. It works by forming a hedge that stops slaver from constantly wetting down the lips and helps heal chapped areas. Unlike camo, lip attar is suitable for all genders and is more affordable. Overall, it emphasizes lip attar 's part as a practical and soothing lip care product rather than a dress for color.

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