

Formulation and Evaluation of Herbal Honey Lip balm

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Date of Submission: 01-07-2024

Date of Acceptance: 10-07-2024

ABSTRACT: Everyday life contents of most lip care products include preservatives and heavy metals. Natural product demand has increased recently, especially in the field of beauty products. The most popular application of lip balm formulations is to accentuate the lips' beauty and add a glamorous touch to cosmetics. One cosmetics item that is frequently used is lip balm. A waxy material called lip balm is applied to the lips to maintain moisture. The purpose of the lip balm is to shield the lips from outside factors, like the winter cold, and to avoid chapped and dry lips. Lip discomfort and infection are avoided with the lip balm. It also lessens the discomfort that comes with chapped lips. The lip balm's components aid to treat cracked lips and moisturize the lips. Lip balm is a type of moisturizer that is used on the lips to prevent drying out and shield them from outside factors. The adverse effects are lessened when herbal substances are used in lip balm. The herbal lip balm formulated for the purpose of beautifying the lips care and attractiveness of face. Ingredients including bees wax, coconut oil, olive oil, castor oil, cocoa powder, vanilla essence, rose essence, honey, etc. were used in the formulation of the herbal lip balm. A multitude of parameters, including colour, pH, irritability, melting and boiling points, scent stability, and solubility, were used to evaluate the created mixture.

KEYWORDS: Herbal Lip Balm, Formulation, Natural Ingredients, Evaluation.

I. INTRODUCTION:

[1] A significant part of today's lifestyle is cosmetics. In addition, the majority of industries, including cosmetics, are currently trending green in order to promote a more natural way of living. Natural remedies for good living, herbal remedies, and natural foods are better choices. Plant products made from organic plants are likewise in high demand. The personal care system has seen a significant surge in the usage of herbal cosmetics. For thousands of years, people have utilized natural

ingredients for traditional medical purposes all across the world. Numerous them possess pharmacological qualities like cytostatic, anti-inflammatory, and antibacterial actions. They are known to be beneficial for human medicine. Plant extracts are cultivated all over the world and are well-known in the horticultural industry. Because they are dependable, plant-based cosmetics for skin and hair care are highly sought-after. Multiple formulations are used in herbal cosmetics. When opposed to synthetic products that have numerous negative impacts on human health, herbal remedies are safer.

[2] A waxy material called lip balm is applied to the lips to maintain moisture. Lip balm was developed to shield the lips from environmental factors including the winter's chill and stop chapped, dry lips. Keeping the lips protected might help stave off discomfort and illness. Lip balm that is occlusive stops saliva from continually soaking into the skin. It also lessens the discomfort that comes with chapped lips. The components of the lip balm help to keep the lips hydrated and encourage the healing of chapped lips. Lip balm is not gender-specific like lipstick. The majority of them are waxy in texture. Lip balms are cosmetic products that add colour, texture, and protection to the lips by combining pigment, oil, waxes, and emollients. Cosmetics are now an essential aspect of life for all women. Herbal lip balms primary functions include protecting lips from UV rays and air pollution while also naturally beautifying them. There is a solid version of the herbal lip balm available. Herbal lip balm should ideally have the qualities of non-irritating and non-toxicity. It should be devoid of grit particles and stable both chemically and physically to preserve the lip colour. The antibacterial, anti-inflammatory, antiseptic, and antioxidant qualities of herbal lip balm.

ANATOMY OF LIPS

[3] The vermilion/white roll, sub vermilion, peristomal, philtral column, and

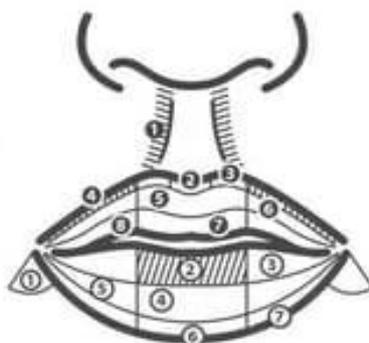
commissure are the five main primary areas. The dry mucosal lip is represented by the subcutaneous portion, while the confluence of the dry and moist mucosal lips is represented by the peristalsis. The lateral and apical regions of the cupid as well as the central filter areas comprise the upper lip of the vermilion/white roll, whereas the middle and

alongside regions make up the lower lip. There are medial and lateral regions in the subvermillion and medial and lateral regions in the peristalsis. Lips: The vermilion mucosa, cheeks, vermilion rim, and hairy skin make up the four sections of the lip surface.

LIP ANATOMY 15 ZONES OF LIPS

UPPER LIP

- ❶ Philtral zone
- ❷ Vermillion central zone
- ❸ Vermillion Cupid's apex zone
- ❹ Vermillion lateral zone
- ❺ Subvermillion medial zone
- ❻ Subvermillion lateral zone
- ❼ Peristomal medial zone
- ❽ Peristomal lateral zone



UNDERLIP

- ❶ Commisural zone
- ❷ Peristomal medial zone
- ❸ Peristomal lateral zone
- ❹ Subvermillion medial zone
- ❺ Subvermillion lateral zone
- ❻ Vermillion medial zone
- ❼ Vermillion lateral zone

Skin: Like the rest of the body, the lips' outer layer is made of skin. In contrast, the skin around the lips is thinner and more sensitive.

The term "vermillion border" refers to the apparent line that separates the skin around the lips' reddish hue from the lips themselves.

Vermilion zone: The term refers to the reddish area of the lips. Because it has more blood vessels than usual, it is crimson in hue.

Philtrum: A philtrum is a vertical indentation or groove that extends from the base to the centre of the top lip.

Cupid's: The double curve, or V-shaped area, in the middle of the upper lip is known as the cupid's bow.

Oral mucosa: The oral mucosa is a thin, moist layer of tissue that covers and protects the inner surface of the lips. It helps to keep the lips hydrated and is distinct from the outer skin. Lips include tiny glands called labia that help to keep the lips moisturized and to make speaking and eating easier.

Nerve ending: The orbicularis oris, a muscle that surrounds the mouth and makes smiling and puckering easier, is one of the several muscles that make up the lips and are in charge of their movement and expression. Lips have a high

density of nerve endings, which makes them particularly sensitive to touch, warmth, and pain.

Lips Related Problems

[4] Lips are susceptible to many ailments or issues. These are a few typical issues with lips.

Dry lips: The lips become parched and lose moisture when they get dry. Environmental variables such as low temperatures, dry air, or excessive lip-licking can be the cause of this. Dry lips might have a peeling, splitting, or tight feeling.

chapped lips: Chapped lips can hurt, feel awkward, and occasionally even bleed. Chapped lips represent a more extreme form of dryness. Weather conditions, wind, sun, and extended dryness can all contribute to chapped lips.

Cold sores: Little, painful blisters that form on or near the lips and are filled with fluid are known as fever blisters and cold sores. They are extremely contagious and are brought on by the herpes simplex virus.

Inflammation and cheilitis: An inflammatory response and mouth corner cracking are indicative of angular cheilitis. It may be caused by prolonged

exposure to moisture, a deficiency of nutrients, or bacterial or yeast infections.

Lip infections can be caused by viruses, bacteria, or fungi. Swelling, redness, pain, and the appearance of blisters or sores filled with pus are signs of infection.

Allergies: Certain foods, cosmetics, or lip care products may cause allergies in certain people. Swelling, itching, redness, and even blistering on the lips are all signs of an allergy.

Lip discoloration: Your lips can change color due to a number of factors, such as smoking, sun exposure, certain medications, and underlying medical conditions. Lips could look darker in this situation.

Types of Lip Balms

There are 7 kinds of lip balms

1. Tinted Lip Balm
2. Medicated Lip Balm
3. Flavoured Lip Balm
4. Organic Lip Balm
5. SPF Lip Balm
6. Plumping Lip Balm
7. CBD Or Hemp oil Lip Balm

Advantages Of Natural Lip Balm

1. Natural lip balms support maintaining the lips inherent beauty and health.

2. Both men and women can use the natural lip balms.

3. Natural lip balm products provide protection for lips that are chapped, dry, or prone to cold sores.

4. Using Natural Lip Balm Cosmetic to Improve the Skin's Condition and Face Appearance.

5. replenishes your lips' moisture.

6. Overnight, replenish your lips to make them soft and less dry.

[5]Applications of Lip Balm

1. Natural lip balms are products that are used to the lips to prevent dryness and to shield them from harmful environmental elements.

2. There are already a lot of chemical-based lip balms on the market from companies like The Body Shop, Baby lip, Blistex, Himalaya, Nivea, and so forth.

3. Natural lip balm is a product that both men and women can use.

4. It's Important to Balance the Concentration of The Main Ingredients, Such as Butters, Oils, Waxes, and other Excipients, To Make Lip Balms.

5. Since users frequently eat away from lip balms, it is crucial that health regulators examine the ingredients of the balm at a microscopic level.

II. MATERIAL AND METHODS:

Collection of material:The various material bees wax, coconut oil, olive oil, castor oil, are collected form college lab. Beet root powder and vanilla essence purchasing from Nashik marketand preparedin college lab. Honey is collected form the worker bees.

Role of ingredients

Sr. No	Name of crude drug	Botanical Name	Use	Image
1.	Bees Wax	Cera alba	Glossiness Hardness	

2.	Coconut Oil	Cocos Nucifera	Lubricant	
3.	Olive Oil	Olea europaea	Soft Wax (glossy)	
4.	Castor oil	Ricinus communis	Blending agent	
5.	Beet Root	Beta vulgaris	Colouring Agent	
6.	Vanilla Essence	Vanil planifolia	Flavouring Agent	

Preparation Method of Herbal lip Balm:

1. Boiling water is placed in a water bath that is kept on the burner.
2. A Porcelain dish filled with beeswax is placed over boiling water.
3. Heat is applied to the beeswax until it fully melts.
4. After adding cocoa/shear butter, honey, and to the melted beeswax, it is thoroughly mixed using a glass rod at a leisurely pace.

5. Oil infused with rose petals is added to the concoction and thoroughly stirred.
6. Fragrance and colouring agent are added once a homogenous mixture is achieved.
7. The blend is transferred into the receptacle.
8. Next, the mixture is either dried in the sun or cooled in an ice bath.
9. After solidification put in appropriate container.



FORMULATION TABLE: -

Name of Ingredients	F1	F2	F3
Bees wax	2g	2g	3g
Coconut oil	3ml	3ml	3ml
Olive oil	2ml	2ml	2ml
Beet root extract	5ml	4.5ml	4ml
Vanilla essence	8-9drops	8-9drops	8-9drops
Honey	3ml	3ml	3ml

EVALUATION PARAMETERS: -

Sr. No	Parameters	F1	F2	F3
1.	Melting point	64	63	65
2.	Organoleptic properties			
2.1	Colour	Red	Deep Red	Maroon

2.2	Odour	Pleasant	Pleasant	Pleasant
2.3	Appearance	Smooth	Smooth	Smooth
3.	Spread ability	Good	Very good	Good
4.	pH measurements	6.1	6.4	6.2
5.	Skin Irritation	No	No	No

III. RESULT AND DISCUSSION:

The present study was done to prepare and evaluate the herbal honey lip balm by using herbal ingredients like honey, beet extract, coconut oil, beeswax, castor oil. Prepared three formulations F1, F2, F3. Consumers will find the lip balm visually and sensually appealing if its organoleptic qualities—such as colour, Odor, taste, and appearance—are evaluated. favourable organoleptic features contribute to a favourable user experience. The lip balm formulation's melting point was found to be within the permitted range, meaning that it can resist common storage conditions without melting or changing texture. This is necessary to keep the lip balm stable when it is being stored and transported. The spread ability test determines how easily and reliably the lip balm may be used. Because of its excellent spread ability, the lip balm may be applied to the lips quickly and effortlessly, forming a barrier that won't break or distort.

IV. CONCLUSION:

The formulation showed the same stability behaviour whether it was stored in a refrigerator or at room temperature. It was concluded that the organoleptic properties were steady and the spread ability was "good". The product's functioning was preserved, therefore storage under these circumstances was judged adequate. The stability test of the lip balm consisting of natural ingredients was passed with a mean melting temperature of 63°C.

It was discovered that natural components are a better substitute for synthetic compounds in lip balm formulations and are safe to use. Excipients can be mixed or changed in novel ways to create a new, higher-quality formulation. Herbal

lip balm has good effect. Herbal lip balm is used to rejuvenate the lips muscles maintain the elasticity of the skin. Remove adhered dirt particles and improve the blood circulation.

ACKNOWLEDGEMENT:

The author is thankful to the SMBT Institute of Diploma Pharmacy, SMBT sevabhavi trust and Principal for providing all the necessary facilities for the successful completion of this work.

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