



FORMULATION AND EVALUATION OF HERBAL LIPSTICK USING BETA VULGURIS EXTRACT

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ABSTRACT

Herbal cosmetics are obtaining acceptance in society because natural products are easy to handle and easy to use. The word “Herbal” refers to symbol of safety which has no adverse effects. The present study was done to formulate and evaluate herbal lipstick as they reduce the side effects and increase the usage of natural colorants. Herbal lipstick is a cosmetic product containing pigments, waxes, oils, fragrance, preservatives, Antioxidants and colours. Lipstick formulation is used to protect and to increase the beauty of lips. It is easy to use and handle by women. Herbal lipsticks have minimum side effects. In herbal lipstick development, there are many natural ingredients or nutrients which are safe for lips and keep it healthy. Herbal lipsticks are free from hazardous chemicals. Herbal Lipstick having many advantages it should be protects lips from dryness and cracking. The formulated herbal lipstick was evaluated with several parameters like smoothness, greatness, melting point, breaking point and pH.

Keywords: Herbal cosmetics, Herbal lipstick, side effects, safe, colour.

INTRODUCTION

Cosmetics are substance which used to enhance the appearance and/or fragrance of the body. Generally, cosmetics are designed to applicable for the face and hair. Cosmetics are generally mixture of various chemical compounds. Some cosmetics being derived from natural sources such as castor oil. Common cosmetics include Shampoo, Lipstick, Cream, Mascara, Eye shadow, Foundation and skin cleanser. Cosmetics are products designed to cleanse, protect and change the appearance of external parts of our bodies. [1-5]

Herbal lipstick is a cosmetic product containing pigments, waxes, oils, fragrance, preservatives, Antioxidants and colours. These lipstick preparations do not damage to our lips and have no side effect. Lipstick having many advantages it should be protects lips from dryness and cracking. It brightens women's smile and provides hydration to our lips. In herbal lipstick development, there are many natural ingredients or nutrients which are safe for lips and keep it healthy. Herbal lipsticks are free from hazardous chemicals. [5-7]

Ideal characteristics of Herbal lipstick: [7-10]

It should be free from contamination.

Easily available and safe to use.

Not irritation or any damage to skin.

Have proper texture, odour, colour and packing, etc.

No colour change during storage.



Fig. 1: Herbal lipstick

Experimental Work:

Ingredients:

Table 1: Details of Herbal ingredients used in Herbal lipstick

Sr. No.	Ingredient	Biological source (family)	Quantity taken	Use
1.	Bees wax	<i>Apis mellifera</i> (Apidae)	9 gm	Thickening agent
2.	White soft paraffin	Petroleum	9 gm	Base
3.	Olive Oil	<i>Olea europoea</i> (Oleaceae)	5 ml	Moisturizing agent
4.	Beat root extract	<i>Beta vulgaris</i> (Amaranthaceae)	1 ml	Colouring agent
5.	Acacia	<i>Acacia Arabica</i> (Legumes)	1 gm	Additive
6.	Orange Juice	<i>Citrus sinensis</i> (Rutaceae)	1 ml	Antioxidants
7.	Vitamin E	---	1 ml	Antioxidants
8.	Lemon juice	<i>Citrus limon</i> (Rutaceae)	1 ml	Antioxidants
9.	Peppermint Oil	<i>Mentha piperita</i> (Lamiaceae)	q. s.	Flavoring agents





Fig. 2: Herbal ingredients used in Herbal lipstick

[A] Preparation of Beet root extract:

Washed Beet roots are peeled and chopped



Then Beet roots are blended well. Extract was filtered through a Piece of muslin cloth



Filtrate of red beet colour obtained

[B] Preparation of Herbal lipstick:

Weight all herbal ingredients in porcelain dish individually. Then porcelain dish placed on water bath when ingredients are melted Continuously beeswax is mixed with olive oil.



Then add the acacia to the above mixture. Beet root extract and orange juice as well as lemon juice are also added as are colouring agent and preservative



White soft paraffin is added as are moisturizing to lip.



Then added the vitamin E as are the antioxidant and smoothening agent



Flavouring agent is peppermint oil is added which have good smell.



Transfer it in mould and Place in the freezer.



Scrap the top layer by sharp knife and remove stick.



Pass the lipstick through the flame in quick fashion it gives gloss to the surface layer of the lipstick.

Performing various evaluation test of prepared lipstick, Place the lipstick in lipstick container and store

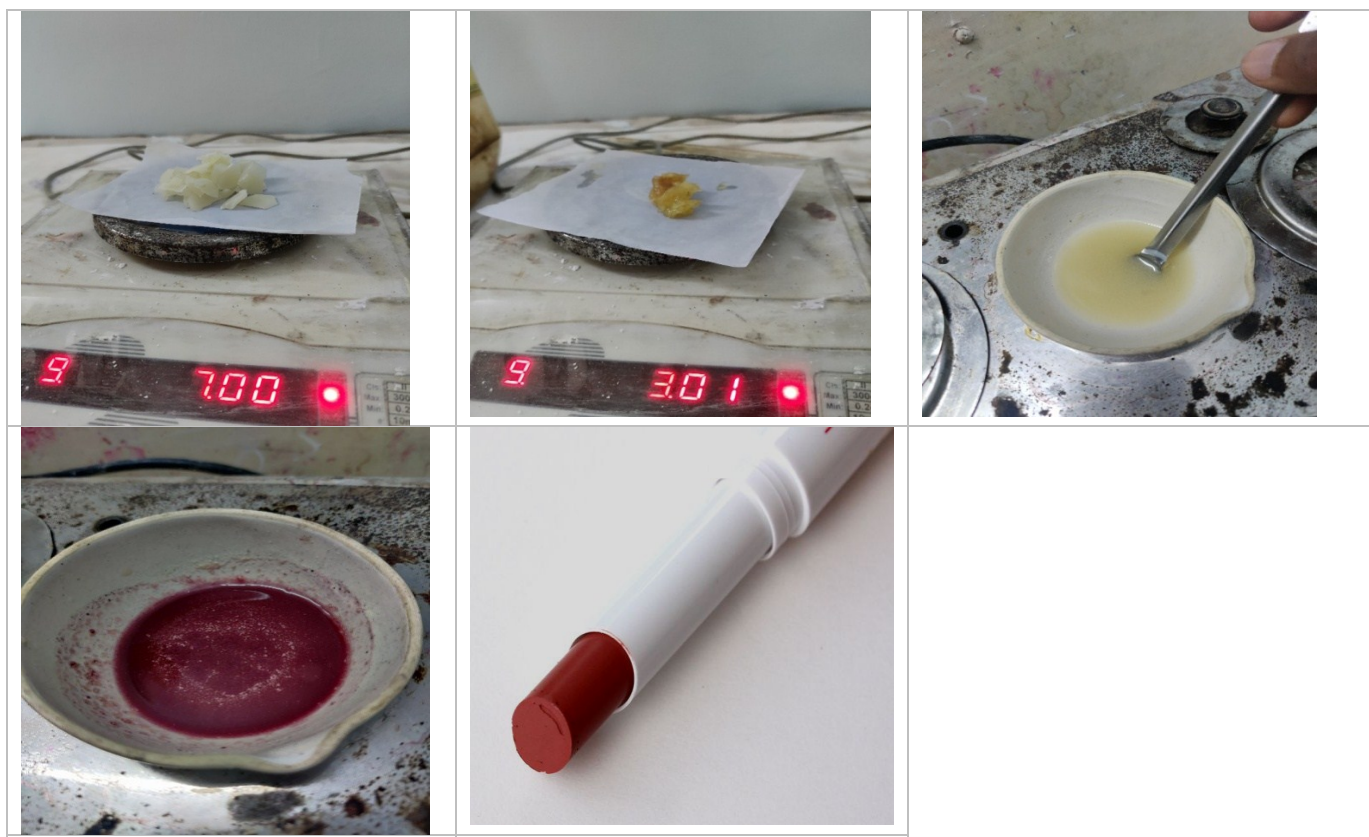


Fig. 3: Weighing, Melting and Freezing of herbal lipstick during its preparation

Fig. 4: Prepared Herbal lipstick

Evaluation Parameters¹¹

Colour and texture: Formulated lipstick was checked for colour, glossy and smooth texture.

pH parameter: The pH of formulated lipstick was determined using digital pH meter.

Skin irritation Test: It was carried out by applying product on the skin and left for 10 minutes. Found that there was no irritation on skin.

Melting Point Determination Test: The determination of melting point is done in order to determine the storage characteristics of the product. The inciting point of lipstick base should be between 60 to 65°C in order to avoid the sensation of friction or dryness during application. Melting point of herbal lipstick is determined by capillary tube method. The capillary is filled with lipstick and attached to the thermometer. At temperature at which lipstick is melted is recorded as Melting point.

Breaking Load Point Test: This test is done to determine the strength and hardness of prepared lipstick. In this method, the lipstick is placed horizontal position 1 inch from the base. Weight is gradually increased loads are attached to it. At Weight at which the lipstick starts to break, known as the breaking load point. The test shall be carried out in specific condition and at about 25 °C temperatures.

Perfume stability: The formulated herbal lipsticks were tested after 30 days, to record fragrance.

Aging stability: Prepared herbal lipsticks were stored at refrigerator temperature (4°C), room temperature (20- 30°C) and high temperature (40-50°C) for 1hour. Various parameters such as bleeding, crystallization and ease of application were observed.

Force of application: It is test for comparative measurement of the force to be applied for application.

Lipstick was applied at 45°C to cover a 1sq.inch area until fully covered.

Solubility test: The formulated herbal lipstick was dissolved in various solvents to observe the solubility.

RESULT: Many natural ingredients were used for formulating herbal lipsticks that contain colouring

agent which was extracted from the herb *Beta vulgaris* and these lipsticks were evaluated on different parameters. Results of evaluation tests are represented in following table no. 2.

Table 2: Evaluation result of Herbal Lipstick

Sr. No.	Evaluation parameter	Inference
1.	Colour	Red
2.	Texture	Smooth
3.	Odour	Aromatic
4.	pH	6.2
5.	Skin irritation	No
6.	Melting point	60-62 °C
7.	Breaking point	30 gm
8.	Perfume stability	+++
9.	Aging stability	Smooth
10.	Force of application	Good
11.	Surface anomalies	No defect
12.	Solubility test	Soluble in Chloroform

CONCLUSION

Herbal lipstick has been tremendous boost in use of cosmetic by women. It also helps the medicinal that softening, reduce inflammation, moisturizing the lip. In present work, extraction of colour pigment from Beet roots using ethanol was carried out successfully. This colour pigment was collected naturally. The herbal formulation was found to be the best and stable. Hence, from the present study it was concluded that this formulated herbal lipstick was better with minimum side effects or no side effects. From evaluation studies, formulation of lipstick using this natural colorant was more satisfactory than marketed formulation.

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