

**FORMULATION AND CHARACTERIZATION OF HERBAL
LIPSTICK USING COLORED PIGMENT OF PUNICA GRANATUM*****Vaishali S. Jagtap, Pallavi M. More and Dr. Urmilesh Jha**

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Herbal Cosmetics are in rising demand in the world market as these are the priceless gift of nature with enhanced activity and lesser or no side effects. The concept of beauty and use of natural cosmetics is as primordial as mankind and civilization. Herbal cosmetics as the name suggests are natural and free from all the destructive artificial chemicals. The present work was aimed to formulate herbal lipstick by using various natural ingredients like concentrated juice of pomegranate seeds (*Punica granatum*), shikakai, dried ginger powder, lemon juice, coconut oil, bees wax, paraffin wax, strawberry essence,

vanilla essence and so on. The formulated herbal lipstick was evaluated and various parameters such as color, melting point, breaking point, force of application, surface anomalies, pH, skin irritation test and aging stability were determined and reported herewith.

KEYWORDS: *Punica granatum*, herbal cosmetics, herbal lipstick, melting point, aging stability, pH.

INTRODUCTION

The demand of herbal cosmetics is increasing steeply as they are skin friendly with no side effects.

Normally herbal cosmetics are also referred to as natural cosmetics. (Saha2006) Herbal cosmetics are formulated by preparing a natural base first in which one or more natural ingredients are incorporated properly. (Chattopadhyay 2005) Herbal cosmetics are the most recent trend in the field of beauty and fashion. These beauty products supply proper nutrients, enhance health and ensure user satisfaction compared to the synthetic cosmetics. (Bennet & Bennet 1993) Human skin acts as protective barrier, through which natural ingredients

penetrate. Therefore, consumers always search for natural-based cosmetics to avoid allergic reactions and any sort of side effects. Lipstick is a lip coloring agent that has its earliest use dating back to the prehistoric age. At present, the popularity of this product has increased, and the choice of its different shades, textures and luster has become very demanding.^[1]

MATERIAL AND METHOD

Selection of herbs

The various herbs used in the formulation of herbal lipsticks were selected on the basis of literature survey. (Ellison 1999 & Kokate et al 2007).

Collection of material

The different herbs used in the development of herbal lipstick were collected in the months of Sep-Oct 2019 from the local market of Urulikanchan.

Preparation of Colour Pigment

Coloring agent is obtained from seeds of Punica granatum by pressing, filtration and evaporation of the resultant juice.

Formulation of herbal lipstick

The herbal lipstick was formulated as per general method of lipstick formulation. In brief; all hard and soft waxes were melted in porcelain dish on water bath with decreasing order of their melting point. Concentrated Punica granatum juice was mixed with Coconut oil and heated. Both phases were mixed at same temperature. Strawberry essence, lemon juice ginger powder, shikakai powder, vanilla essence and Vitamin E were added at 40°C. Then mixture was poured into lipstick mould in excess amount and mould was kept on ice bath. After solidification surplus amount was scrapped with blade. Lipsticks were removed from mould and flamed. Prepared Lipsticks were fitted in Lipstick container and used for further evaluation. (Jain and Sharma 2005 & Sharma 2005) Composition and importance of different ingredients used for preparation of herbal Lipstick is shown in Table 1.

Table 1: Ingredients with their prescribed quantity in the formulation of herbal lipstick.

Sr. No	Ingredients	Importance	Quantity (Gm)
1	Coconut oil	Blending properties	15
2	Paraffin wax	Glossy and Hardness	30
3	Bees Wax	Glossy and Hardness	35
4	Ripe fruit of shikakai	Surfactant	13
5	Punica granatum juice	Coloring agent	3
6	Ginger powder	antimicrobial	2
7	Strawberry essence	Flavoring agent	1
8	Lemon juice	Anti-oxidant	0.5
9	Vanilla essence	preservatives	q. s

CHARACTERIZATION OF HERBAL LIPSTICK

It is very essential to maintain a uniform standard for herbal lipstick, keeping this view in mind the formulated herbal lipsticks were evaluated on the parameters such as melting point, breaking point, force of application, surface anomalies etc.

Melting point

Determination of melting point is important as it is an indication of the limit of safe storage. The melting point of formulated lipstick was determined by capillary tube method.

Breaking point

Breaking point is done to determine the strength of lipstick. The lipstick is held horizontally in a socket ½ inch away from the edge of support. The weight is gradually increased by a specific value (10gm) at specific interval of 30 second and weight at which breaks is considered as the breaking point.

Force of application

It is test for comparative measurement of the force to be applied for application. A piece of coarse brown paper can be kept on a shadow graph balance and lipstick can be applied at 45° angle to cover a 1 sq. inch area until fully covered. The pressure reading is an indication of force of application.

Surface anomalies

This is studied by the surface defects, such as no formation of crystals on surfaces, no contamination by moulds, fungi etc.

Aging stability

The product was stored in 40° C and various parameters such as bleeding, crystallization of wax on surface and ease of application were observed.

pH parameter

The pH of formulated herbal lipstick was determined using pH meter.

Skin irritation test

It is carried out by applying product on the skin for 10 min.

Table 2: Characterization of formulated lipstick containing herbal ingredients.

Sr.no	Evaluation parameter	Inference
1	Color	Pink
2	Melting point	60-63 ⁰ c
3	Breaking point	33
4	Force of application	Good
5	Surface anomalies	No defect
6	Aging stability	Smooth
7	pH	6.05 [±] 0.3
8	Skin irritation test	No

RESULT AND DISCUSSION

The formulation and evaluation of herbal lipsticks was aimed to formulate a lipstick using herbal ingredients. According to literature survey of previous investigation of these herbal plants it may be minimize the side effects as produced by the available synthetic ones. Different natural ingredients were used for formulating natural lipsticks that contain coloring agent which is a natural colorant obtained from Punica granatum and the effect of different natural ingredients on different evaluation parameters in the formulation have been investigated.

CONCLUSION

Now a days when cosmetics offers artificial and chemical ingredients at sky rocking prizes as well as several adverse effects, herbal cosmetics carry goodness of natural alternatives with its herbal products. These ecofriendly, herbal lipstick is made from natural plant extracts that promises to rejuvenate and revitalize skin with new freshness. The present investigation was done to formulate lipstick containing herbal ingredients.

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