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# A Review on Herbal Lipstick From Beetroot 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, antioxidants and colour. 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.[1,5]

Keywords: Herbal Cosmetic, Herbal Lipstick, Beetroot, Betanine. lips.

#### Introduction

According to the D&C Act 1940 and the Rules 1945, cosmetics are any article intended for sprinkling, pouring, rubbing or sprinkling, inserting or applying to the human body or parts thereof for the purpose of washing, beautifying, promoting enchantment or appearance transformation. Lipsticks get their colors from diffusing lake pigments and tints, but now they're not limited to Bromic Acid, D&C Red #21, Calcium Lake including D&C Red 7 and D&C Red 34, and Orange #17.[2] There are organic and inorganic pigments. Herbal cosmetics are also referred to as natural cosmetics.

Herbal cosmetics are developed by applying various cosmetic essential elements to form the base on which one or more naturally occurring elements are used. In herbal cosmetics, herbs are used in raw or extract form., leaves, seeds, wood, bark, stems, rhizomes, roots or other plant parts which may be integrated, crushed or powdered. Herbal materials also include fresh juices, gums, fatty oils, essential oils, resins, and dry powders of herbs. Herbal cosmetics are formulated by decanting various cosmetic ingredients to form the best in which one or more herbal ingredients are used. Herbs do not provide immediate treatment. They offer a way to bring the body into balance with nature. The special thing about herbal cosmetics is that they are hardly formed from herbs and shrubs and therefore have no side effects. The natural

Herbal ingredients also provide the body with nutrients and minerals. The term cosmaceuticals was first coined in 1961 by Raymond Read, a member of the Society of Cosmetic Chemists of the USA. Cosmetics are substances used to improve the appearance and/or fragrance of the body.

Cosmetics are generally intended to be applied to the face and hair. Common cosmetics include shampoo, lipstick, cream, mascara, lotion, oils, soaps, eyeshadows, foundations, and skin cleansers. Cosmetics are products designed to cleanse, protect and change the appearance of the outer parts of our bodies.[1,5]What is lipstick?

Lipstick is a cosmetic product containing pigments, oily waxes and emollients that add color, texture and protection to the lips. As we have seen, synthetic dyes are harmful and can have various side effects such as carcinogenicity. The dyes that contribute to the color of lipstick are very harmful to humans if consumed. Various dyes are used to give the lipstick the nuances. To avoid this harmful side effect, we tend to use more natural dyes.

Every day, millions of women put on lipstick without even thinking about it. Some lipstick formulations contain lead metal. Lead is a neurotoxin and can be dangerous even in small doses.[8]

## **History**

Ancient Sumerian guys and women (in mesopotamia) have been in all likelihood the primary to invent and put on lipstick, approximately 5,000 years ago. They overwhelmed gem stones and used them to enhance their faces, in particular at the lips and across the eyes. Also Egyptians like Cleopatra overwhelmed insects to create a color of pink on their lips. In the nineteenth century, lipstick changed into coloured with carmine dye. Carmine dye changed into extracted from cochineal, scale bugs local to Mexico and Central America which stay on cactus plants. Cochineal bugs produce carminic acid to discourage predation through different bugs. This lipstick did now no longer are available in a tube; it changed into implemented with a brush. Carmine dye changed into steeply-priced and the appearance of carmine coloured lipstick changed into taken into consideration unnatural, so lipstick changed into frowned upon for regular put on. Only actors and actresses ought to break out with sporting lipstick. In 1880, few degree actresses wore lipstick in public. Lipsticks also are time period as lips cosmetics are extensively utilized by women. [7]

#### Composition / Ingredients Used In Formulation of Herbal Lipstick:[8]

Ingredients	Biological	Quantity	Use	
6-1	source	taken		
Bees wax	Apis	<b>9</b> gm	Thickening	
- 2	mellifera		agent	
Paraffin	Petroleum	<b>9</b> gm	Base	
wax				
Beet root	Beta	1 ml	Colouring	
juice	vulgaris		agent	
Olive oil	Olea	5 ml	Moisturizing	
	europea		agent	
Vitamin E	_	1 ml	Antioxidant	
Lemon	Citrus	1 ml	Antioxidant	
juice	limon			
Strawberry	-	Q.s	Flavouring	
essence			agent	
Castor oil	_	1ml	Blending	
			agent	

#### Table no.1

## **Taxonomial classification of beetroot:**

Kingdom	Plantae	
Division	Magnoliphya	
Class	Magnoliopsida	
Order	Caryophyllus	
Family	Chenopodiaceae	
Genus	Beta. L	
Species	Beta vulgaris	

Table no.2

## **Nutritional values of beetroot:**

Compound	Amount
Energy	43 k <mark>cal</mark>
Protein	1.61g
Suger	6.76 g
Calcium	16mg
Iron	0.80 mg
Folate	2.30 g
Riboflavin	0.04 mg
Vitamin B6	0.06 mg
Vitamin A	0.04mg
Vitamin E	0.02mg
Vitamin C	4.9 mg
fibres	2.8 g
Carbohydrates	9.56g

Table no.3



## Health benefits of beetroot:[4]

Beets are wealthy in folate (nutrition B9) which allows cells develop and function. Folate performs a key function in controlling harm to blood vessels, that may lessen the danger of coronary heart sickness and stroke. Beets are clearly excessive in nitrates, that are was nitric oxide withinside the body. This compound lowers blood stress through inflicting the blood vessels to loosen up and widen. Boost Your Immune System Beets are excessive in fiber and sell the boom of accurate micro organism to your gut. Having lots of wholesome micro organism to your digestive gadget allows combat sickness and enhance your immune gadget. Fiber additionally improves digestion and decreases the danger of constipation. 1. Treats tension disorder 2. Lowers blood stress 3. Anti-thrombotic and Anti-inflammatory properties 4. Improve athletic performance Protects Liver 6. Prevents demnitia 7. Anti-cancerous 8. Treat anemia 9. Good for pregnancy 10. Healthy coronary heart 11. Prevents start defects 12. Antidiabetic 13. prevents breathing infections

## Herbal ingredients used in herbal lipstick:[4]



Fig.1 .beetroot extract





Fig.3.vitamin E.

#### **Methods:**

**Extraction of colour pigment from beetroot extract:** Beets are the natural red dye from the main supply box called "Beet Root Red". Betanin is the main component of the red pigments extracted from beetroot. a wide range of alternative shades such as golden yellow, red and striped white. The pigment extraction is carried out by homogenizing the fruit pulp and solvents (1/1 w/v) in equal parts. Take 100g of the peeled fruit, with a watery consistency. , and macerate with 100 ml of from

Solvent (Et OH, aqueous ethanol 50:50) for 15 minutes in an ice bath. Completely remove the alcohol during the concentration process and store the samples in a dark container.[10]

## Preparation of herbal lipstick:

- ¬ Weight all natural components in porcelain dish individually.
- ¬ Then porcelain dish positioned on water tubtub whilst components are melted Continuously beeswax is blended with olive oil.
- ¬ Then upload the castor oil to the above mixture.
- ¬ Beet root extract and orange juice in addition to lemon juice also are introduced as are colouring agent and preservative
- → White gentle paraffin is introduced as are moisturizing to lip.
- ¬ Then introduced the nutrition E as are the antioxidant and smoothening agent
- ¬ Flavouring agent is peppermint oil is introduced that have top smell.
- ¬ Transfer it in mildew and Place withinside the freezer.
- . Scrap the pinnacle layer through sharp knife and take away stick.
- ¬ Pass the lipstick thru the flame is brief style it offers gloss to the floor layer of the lipstick \[ \]
- . Performing diverse assessment take a look at of organized lipstick, Place the lipstick in lipstick field and store.[9]

#### **Ideal characteristics:**

- 1. It must deliver brilliant and smooth look unfastened from sweating
- 2. It must be non-irritant and non toxic to the lip.
- 3. It must now no longer dry on storage.
- 4. The field must perform easily.
- 5. It must impart uniform coloration to the place of application.



**6.** It should be free from gritty particles.

7. It should not melt or harden within reasonable variation of climatic temperature.[7]

## Advantages of herbal lipstick over synthetic lipstick:

The natural ingredient in the lipstick is completely natural and safe to use. They also contain natural nutrients that keep lips healthy. They have little or no impact on appearance. They are non-toxic, highly lipophilic, antioxidant, antimicrobial, anti-inflammatory and used in lip leukoderma. Wide range of colors to choose from.

The dyes have various original color nuances, from crimson, ruby red, beetroot purple, dark violet, pastel red, pale red, crimson, rose red, deep magenta, dark violet, orange, deep violet. Various combinations and shades can be achieved from these colors. By adding organic and inorganic acids and bases, the color can change into different nuances. [6,8,9]

## **Evaluation parameters:**

Evaluation of natural lipstick is crucial to preserve a fashionable of natural lipstick. The organized formulations have been evaluated for the subsequent tests. Colour of lipstick: The assessment of shadeation became assessed with the aid of using Physical remark of the lipstick products. Determination of melting factor: Take each ends of lipstick bin

open glass capillary tubes. Then a enough quantity of lipstick became added into every of 5 capillary tubes, approximately 10 mm excessive and permits tubes to face for the suitable time and on the Prescribed temperature in capillary tube apparatus. After that, the temperature at which the lipsticks start to soften withinside the capillary tube became taken because the melting factor. The operations have been repeated for 5 times, and the common became calculated and recorded. Determination of Spreadability: It became examined with the aid of using time and again making use of the lipstick onto the glass slide to take a look at the uniformity withinside the components of the protecting layer and whether or not the stick fragmented, deformed, or broke all through utility. Good: Uniform, fragments do now no longer occur, best utility, with out deformation of lipstick. Intermediate: uniform, depart fragments, precise utility however with little deformed. Bad: Not uniform, leaves many fragments, hard to use and deformed. Determination of hardness: Formulated lipstick taken and measured the use of Monsanto hardness tester. The common end result of components became calculated and recorded. Determination of floor anomalies: Determination of floor anomalies became studied approximately the floor defects, including any crystal formation on lipstick surfaces, any infection with the aid of using moulds, fungi. Determination of growing old balance: The formulated lipstick became saved in warm air oven (400c), room temperature (220c) and fridge (four to 80c) for one hour every and discovered numerous parameters including bleeding, crystallization on floor and simplicity of utility. There lipsticks for every circumstance have been used to make sure received the consistency and correct results. Determination of solubility: The solubility of the herbals became discovered after dissolved lipstick in numerous solvents including acetone, ethanol, hexane, ether and water. Determination of pH: pH of the natural lipstick became decided with the aid of using the use of pH meter and pH paper. the common end result of every components became calculated and recorded. Determination of Perfume balance: This balance check became performed to assess the Spreadability, and organoleptic homes of lipstick components (colour, odour and appearance) for 30 days below the situations including room temperature (22 to 30°c), and fridge temperature (three to 5°c). the components have been saved at room temperature for 48 hours after which evaluated at base line( t zero). It became then saved below extraordinary situations. According to the stableness studies, and the traits can be assessed at the 3rd, 7th, 15thand thirtieth days. The price of t zero can be used to examine with the price of the results . Skin infection check: It is completed with the aid of using making use of product at the pores and skin for 10 min. Determination of breaking factor: Breaking factor became executed to decide the electricity of lipstick. The lipstick became held horizontally in a socket inch farfar from the threshold of support. The weight became step by step improved with the aid of using a selected price (10gm) at a selected c program languageperiod of 30 seconds and weight at breaks became taken into consideration because the breaking factor.[8,10]

## **Evaluation result of herbal lipstick:[3]**

Evaluation	Inference	
parameter		
Colour	Red or pink	
Texture	Smooth	
Odour	Aromatic	
PH	6.2	
Skin irritation	No	
Melting point	60-62°c	
Breaking point	30gm	
Perfume	+++	
stability		
Aging stability	Smooth	

Force	of	Good	
application			
Surface		No defect	
anomalies			
Solubility tes	st	Soluble	in
		chloroform	

Table no.4

## **Conclusion:**

Herbal lipstick has given a huge boost to women's cosmetic use. Also helps with medications that soften lips, reduce inflammation and moisturize. In the present work, the extraction of color pigments from beet roots with ethanol was performed, with the color pigments being collected naturally.

The herbal formulation proved to be the best and most stable. Therefore, from the present study, it was concluded that this formulated herbal lipstick was better with minimal or no side effects. Based on evaluation studies, the lipstick formulation containing this natural dye was more satisfactory than the marketed formulation.[11]

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