

# A review on design and evaluation of herbal lipstick

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**Abstract:** Lipstick is a cosmetic product, which is mainly used to shine and to give attractive appearance to the lips. Both herbal and the synthetic lipstick are formulated and are accumulated marketed, but the herbal lipstick is more preferable than the synthetic because of its safety. The present investigation is done to study the herbal lipstick formulation. The synthetic Lipstick consist of a various Synthetic Ingredients, which leads to the harmful effects. So to the overcome demand in the current market has been increased for accumulation of herbal lipstick. The various herbs are used, from which the different color is extracted by using the different extraction process. For the extraction of different pigment, the different plant parts are used ex: Leaf, Fruit, Bark, Flower “et cetera”.

**Keywords:** Attractive, Formulation, Ingredients, Herbal lipstick, Pigment Extraction “et cetera”.

**INTRODUCTION:** Herbal cosmetic is also known as natural cosmetic [1,2]. Now a days the demand of herbal cosmetic has been Increased rapidly due to their lack of side effects. The best thing of the herbal cosmetic is that it is purely made by the herbs and shrubs. And these herbs are available in the variety of species. In the market there are different herbal products used one of them is the herbal lipstick. Lipstick is a cosmetic product that contain pigments, oils, waxes and emollients that apply color, texture and protection to the lips. Now a Days synthetic lipstick has many more disadvantages over the herbal lipstick so that is why the natural herbal lipstick are formulated by using various herbal ingredients. The synthetic lipstick Consist of the various heavy metals such as copper, chromium, arsenic and cobalt and some other toxic substance also which are harmful to the lips, which leads to rashes on the lips. The herbal world is more safety in contrast to the synthetic word which leads to the negative impact on the human health. Herbal preparation such as herbal tablet, herbal tonics, herbal paste, herbal shampoo, Herbal contraceptives and herbal lipstick are become on popular [2]. Beet Vulgaris is the herbal plant which is used in the formulation of herbal lipstick belonging to the family Chenopodiaceae but Carefully included in Amaranthaceous family. Betanin is the active ingredient of beet root which is mainly responsible for the read color of the beet root [2,3,4].

## WHAT IS THE NEED OF HERBAL PELLETS:

Herbs impart color to our Lips and also gives our lips soft and smooth finish [4].

Herbs also provide natural look to lips [4].

The products made from herbs are effective and do not cause any side effect [4].

Herbs enriched lipstick form the best lipstick [4].

## OBJECTIVES:

Lipstick is a cosmetic product containing variety of ingredients that when applied gives color, texture and protection to lips. Many varieties of lipstick exist for the purpose to beautify the lips. Used variety of herbal formulations are accumulated out of which herbal lipstick are also going popular [5,6].

## IDEAL CHARACTERISTIC:

Ideal characteristics of lipstick which are given as the follows:

Should be Soft in nature [6,7,8].

Consist of all-natural extracted color [6,7,8].

Long lasting [6,7,8].

Do not harm to the lips [6,7,8].

Long shelf life [6,7,8].

No crystals present on the surface [6,7,8].

## ADVANTAGES:

The advantages of herbal lipstick are given as the following:

This herbal lipstick Moisturize our lips, and protect them from UV rays [9,10].

Utilizing all-Natural lipstick keeps our lips hydrated, soothe, and softening the skin of the lips [9,10].

Lipstick defines your lips and brightness your smile, provided you choose the right shade [9,10].

#### **DISADVANTAGES:**

The disadvantages of herbal lipstick are given as the following:

Have very bad odor [9,10].

Consist of dark color which are difficult to remove when applied on the lips [9,10].

Manufacturing process is lengthy because after extraction of the drug that undergoes in various process and after that the herbal lipstick formulated [9,10].

#### **EVALUTATION PARAMETER (Heading 1):**

Lipstick Are evolved different parameters:

**Melting point:** Determination of melting point is most important parameter in the evaluation of the herbal lipstick because it will Gives us the stability of the lipstick. It is determined by using the capillary tube method. firstly, the capillary is filled with the lipstick, and then keep the capillary in the capillary apparatus and then observed. And Melting point should be noted for lipstick [11,12].

**Breaking point:** Breaking point was used to determine the strength of the lipstick. The lipstick was held horizontally in a lipstick socket. The weight was gradually increased by a specific value at specific interval of time and weight at which lipstick breaks was considered as the breaking point [11,12].

**Surface anomalies:** This was used to study the surface defect and to know whether the surface consist of crystals on the surface of lipstick [11,12].

**Force of application:** This test was mainly used to know how much force is required to apply lipstick on the lips. In this a piece of coarse brown paper kept on a shadow graph balance and which was used to measure the force to be applied to apply lipstick on the lips [11,12].

**Solubility test:** In the solubility testing study the various solvents are used to know the solubility. By dissolving lipstick in solvent solubility determined [11,12].

**Skin irritation test:** This test is mainly performed to know the irritancy of the lipstick. For this the lipstick should be applied to the skin for 10 min and the irritancy is noted [11,12].

**Ph parameter:** The Ph of formulated herbal lipstick was determined by using pH meter [11,12].

**Perfume stability:** The formulation of herbal lipstick was tested after one month, to know about fragrance of the lipstick after its long storage [11,12].

**Aging stability:** Aging stability leads to know about how long the product should be stored. For this the product should be stored in 40°C at Hr. and various parameter such as bleeding, crystallization, and surface defect can be studied [11,12].

**Color:** The color should be natural as that of herb studied.

#### **MATERIAL AND METHOD:**

The following methods should be adapted.

**Selection of herbs:** The various herbs be used in the Formulation of the herbal Lipstick hence selection of the herb is based herb means by the literature survey [13].

**Collection and authentication of herbs of plant material:** The different herbs used in the formulation of the herbal lipstick should must be authenticated [13].

#### **METHOD OF PREPARATION:**

The herbal Lipstick were formulated as per general method.

In this formulation wax were melted in a beaker at 70°C on a water bath with decreasing order of their melting point. Similarly, paraffin and oil were taken in another beaker and melted at 70°C on a water bath in decreasing order of their melting point [14,15].

The colored pigment was added to the oil phase until homogeneous mixture was obtained [14,15].

Then it was added to the wax phase at the same temperature. The mixture was cooled at 40 °C and essence was added [14,15].

The molten mixture was poured into lipstick Molds. Upon solidification it was separated from Molds and fitted in the lipstick case [14,15].

#### MARKETED PREPARATION OF HERBAL LIPSTICK:

For Example:

Myglamm. k plays flavor lipstick [16].

Herbal Enriched Ayurvedic lipstick [17].

LIT Statin Matte Lipstick [18].

Pose HD Lipstick [19].

Ruby's Organic semi-matte Lipstick [20].

#### MARKETED PREPARATION OF SYNTHETIC LIPSTICK:

For Example:

LIT Liquid Matte lipstick [21].

LIT Statin Matte Lipstick [22].

Perfect Curve Moisturizing Matte Lipstick [23].

Manish Malhotra Hi-Shine Lipstick 24].

#### PATENTED TECHNOLOGY:

table 2: patented technology

| Sr. No | Patent no    | year | Paper title              | Abstract   | Novelty  |
|--------|--------------|------|--------------------------|--|--|
| 1      | CN102366354A | 2011 | Color changing lipstick. | Invention leads to the formation of the lipstick which changes the color when applied to the lips. According to the Ph of the lips it should changes its color and provide a moisten, glossy lips for longer duration of time. | Color changing lipstick is prepared which leads to give beautiful look to the lips [25]. |

|   |              |      |   |  |   |
|---|--------------|------|---|--|---|
| 2 | CN102274135A | 2011 | Cheilosis preventing lipstick   | By using all natural ingredients including vitamin E, lipstick was prepared which prevent the cheilosis of the lips and by simple method the lipstick is prepared.   | Lip Pomade with anti-chap function was prepared [26].   |
| 3 | CN105411877A | 2014 | Transparent skin moistening lipstick and preparation method thereof.      | Formulation of the transparent skin moistening lipstick which leads to keep lips hydrated. This one is long lasting lipstick.  | Hydrated lipstick was prepared which keep lips hydrated for long duration of time [27].                                     |
| 4 | CN105055279A | 2015 | Preparation method of natural lipstick.                                   | The natural lipstick made-up of the natural component which is good for lips. The natural lipstick remain long time sustained on the lips.   | This leads to solve the deficiencies of the prior lipstick by formulating the lipstick by using the different methods [28]. |
| 5 | CN105534754A | 2016 | Color edible lipstick.  | The lipstick is formulated by using the herbal ingredients, no any artificial ingredients is used.   | Multinational lipstick was formulated [29].   |
| 6 | CN105309316A | 2016 | All-natural lipstick containing no castor oil or synthetic raw materials. | The lipstick was prepared by using the natural ingredients without the use of the castor oil and any synthetic raw material. Due to use of natural ingredients. the harm or any allergic effect to the lips get prevented. | Antiallergic lipstick was prepared [30].  |

|    |              |      |   |  |   |
|----|--------------|------|---|--|---|
| 7  | CN107184502A | 2017 | A kind of medicinal lipstick and preparation method thereof.    | A medicinal lipstick was prepared by using the medicinal extracts. These lipsticks are more beneficial to the lips because which prevent any harm to the lips.   | The lipstick was prepared which prevent the casting of the lips by using the medicinal plant extract. simple method is used for the preparation [31]. |
| 8  | CN108403528A | 2018 | Summer naturally moist lipstick and preparation method thereof. | The invention leads to the formation of summer lipstick by using the natural lipstick which prevent the damage of the lips in the summer and increases the moisturizing property, glossy ness of that lips. (Indirectly which prevent the drying of the lips in summer). | Lipstick was prepared by using the special method and natural ingredients which leads to enhance the moisturizing property of the lips [32].          |
| 9  | CN109199967A | 2018 | A kind of Nourishing type lipstick formula.                     | The formula is formulated in such a way which leads to the formation of the nourishing lipstick. The herbal natural ingredients are used in this formulation which prevent the antiallergic, antibacterial and Anti-fungal effect.                                       | Lipstick prepared which shows the antibacterial and anti-inflammatory effect [33].  |
| 10 | CN105395384A | 2015 | Lipstick containing vitamins.                                   | The lipstick is formulated by using the vitamin E, which leads to prevent lips from drying and cracking,   | Lip pomade containing vitamin was prepared [34].  |

|  |  |  |  |                          |  |
|--|--|--|--|--------------------------|--|
|  |  |  |  | keep lips<br>moistening. |  |
|--|--|--|--|--------------------------|--|

**ACKNOWLEDGMENT:**

I would like to” thanks” my mentor “sachin s vibhute” who helped me to learn a lot about this topic.

**REFERENCE:**

- 1) Davinder Kumar, Gajendra Rajora, Omprakash Himanshu, Mamata Anil, Virender Kumar for Herbal cosmetic's, international journal of advanced Scientific Research Published on volume 1, Issue 4, July 2016. Page No 36-41.
- 2) Kalyani Jam Dade, Ashok Kosta, Nidhi Jain, Sangeeta Dwivedi, Sapna Malviya and Anil Kharia for Formulation and Evaluation of Herbal lipstick using Beta vulgaris And Punica, International Journal of pharmacy Life science, published on volume 11, issue 4, April 2020
- 3) Abhijeet A. Aher, Shripad M. Bairagi, Preethi T, kadaskar Swapnil. Pradeep k. Nimase Evolving formulation and evaluation of herbal lipstick from color pigments of Bexa Orellana Seeds.
- 4) Pandey Sivananda, Meshy Nilam, D. viral for Herbs Play an Important Role in The Field OF Cosmetic, International Journal of PharmaTech Research volume No-1, pp 632-639, Jan-Mar 2010.
- 5) Nilesh Wari P. Chaudhari, Namrata v. Chaudhari, Harshad A. Chaudhari, Laxmi A, Premchandani Amit Kumar R. Dhankani, dr. Sunil, Pawar from a review on herbal, lipstick from different natural coloring pigment India journal of DRUG 2018, 6(3), 174-179.
- 6) Nileshwar P. Chaudhari, Harshada A. Chaudhari, Namrata u, Chaudhari Laxmi Premachandran, Amit Kumar Dhanani, dr. Sunil Pawar, for formulation and evaluation of herbal lipstick from beta vulgaris taproot Indian journal of drugs 2019,7(1) ,14-19.
- 7) G. Sudha Rani, G. pooja, V. Harshvardhan, B. Vamshi Madhav, B. Pallavi for formulation and evaluation of herbal lipstick from beetroot (Beta Vulgaris) Research Journal of pharmacognosy and Phytochemistry published in volume 11, Issue 3, and 2019.
- 8) Richa Kothari, Bhaya Shukla, Divvy Gautam, Minisha Bagaria and Akanksha Sharma for formulation and evaluation of herbal lipstick from natural edible coloring matter International Journal of theoretical and applied sciences, Published on 10(1), Year 2018 Page No 17-20.
- 9) Pallavi. s. Karanja, Rajendra.c. Doijjad, And Rohit. R. Bhosale for formulation and evaluation of herbal lipstick containing Amaranthus cruenbtus Linn International journal of research and Analytical Reviews published on March 2020, Volume 7, Issue 1.
- 10) Assistant Professor, Mona Patel, Ojash Patel, Faculty of pharmacy SSRGL vadasma, Gujarat India for formulation and evaluation of Herbal lipstick using Beta vulgaris Extract. International Ayurvedic medical journal, Published on 2021.
- 11) Aboli Bornare, Tejasvi Tribhuwan, Shrutika Magare, Aishwarya Shinde, Swati Tarkase Nandkumar Shinde for formulation and evaluation of herbal lipstick, International Journal of Creative Research Thoughts (AIJCRT) Volume 8, Issue 9 September 2020.
- 12) Saied Merail Mawazi, Nurul Aqilab Binti Azreen Redzal, Noridian Othman and sultan Othman Alolayan for lipstick history, formulation and Production a Narrative Review Published on 18 February 2022.
- 13) Bharat Vishwakarma, Sumeet Dwivedi, Kushagra Dubey and Hemant Joshi for formulation and evaluation of herbal lipstick, International Journal of Drug Discovery and Herbal Research Published on 1(1) Jan-Mar (2011), 18-19.
- 14) Puja Mishra and Submit Dwivedi for Formulation an Evaluation of Lipstick containing Herbal Ingredients Asian Journal of Medical and Pharmaceutical Research Asian JMED. Pharma 2(3); 58-60, 2012.
- 15) Mittal. B. M and Saha R.N Handbook of Cosmetic first edition A. Vallabh Prakashan 2003,132-156.m
- 16) <http://www.myglamm.com> Myglamm. K. play flavored lipstick.
- 17) [www.justherb.in](http://www.justherb.in) Herb enriched Ayurvedic lipstick.
- 18) <http://www.myglamm.com> LIT Statin matte lipstick.
- 19) <http://www.myglamm.com> Pose HD lipstick.
- 20) <http://www.rubysorganics.in> Ruby's lipstick.
- 21) <http://www.myglamm.com> LIT liquid matte lipstick.
- 22) <http://www.myglamm.com> LIT Statin matte lipstick.
- 23) <http://www.myglamm.com> perfect curve moisturizing matte lipstick.
- 24) <http://www.myglamm.com> Manish Malhotra Hi shine lipstick.
- 25) 2011 Color changing lipstick CN Patent, CN102366354A Published on 03/07/2012.

- 26)** 2011 Cheilosis preventing lipstick CN Publication, CN102274135A Published on 12/14/2011.
- 27)** 2014 Transparent skin moistening lipstick and preparation method CN Publication CN105411877A.
- 28)** 2015 Preparation method of natural lipstick CN Publication, CN105055279A Published on 11/18/15.
- 29)** 2016 Color edible lipstick CN Patent CN105534754A, Published on 05/04/2016.
- 30)** 2016 All-natural lipstick containing no castor oil or synthetic raw material CN Publication, CN106309316A Published on 01/11/2017.
- 31)** 2017 A kind of medicinal lipstick and preparation method there of CN Publication, CN107184502A.
- 32)** 2018 Summer naturally moist lipstick and preparation method there of CN Publication, CN108403528A Published on 08/17/2018.
- 33)** 2018 A kind of nourishing type of lipstick formula CN Publication, CN109199967A Published on 01/15/2019.
- 34)** 2015 lipstick containing vitamin CN Publication, CN105395384A Published on 03/16/2016.