

Review on Herbal Lip Balm

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Submitted: 15-12-2022	Accepted: 26-12-2022

ABSTRACT

Cosmetics are incredibly in demand since historical time. These days focus shifted more towards aturally derived cosmetic products.the ingredient of the synthetic source have so much adverse effec ts where's herbal word is a symbol of safety Among all cosmetic products, lip balm formulations are most widely used to enhance the beauty of lips and add glamour touch to the makeup.the lip balm resist from the external temperature, variation and other factor .lip balm is not gender specific product that is anyone can easily use this cosmetic. The natural lip balm can made using naturally occurring base, oil, extract, and flavouring age colorant concept behind our product is a long lasting moisturizer herbal lip balm

Keyword: Herbal, Herbal Lipbalm, Moisturizer, Natural Ingredients, Lip Dryness.

I. INTRODUCTION:

The skin is the body's largest organ it covers the entire body. It serves as a protective shieldorgansheat, light, injury and infection

The skin also

- 1) regulates body temperature
- 2) store water and fat
- 3) prevent water loss
- 4) prevent entry of bacteria

The type of skin is determined by genetics, although it will also be Other factors and can change with time based on these characteristics there are five type of healthy skin normal, dry, oily, combination, (both oily and dry skin) and sensitive .Cosmetic plays a significant role in today's life style. Moreover current trend is going green in almost all industries including cosmetics to adopt more natural way of life. The preferable choices are natural food, herbal medicines and natural curing practices for healthy life and also there is much demand for the organic vegetable products. The usage of herbal cosmetics has been increased to many folds in personal care system[1].Natural products have been used for folk medicine purposes throughout the world for thousands of year .Many of them have pharmacological properties such as antimicrobial.anti- inflametory. and cytostatic effect .they have been recognized as useful for human medicine. Herbal extract are cultivated all over the world and is prime name in horticulture sector, cosmetic made up of herbal extract for skin care and hair care are very popular for their reliability. herbal cosmetic products include various formulation. the word herbal indicated safety as compared to synthetic product which are having various adverse effects on human health. The primary purpose of the lip balm is to provide an occusive layer on the lip surface to seal moisture in lips and protect them from external exposure a lip balm wax like substance applied topically to the lips to moisturize and relieve chapped or dry lips, angularcheilitis, stomatitis, cold sores the lips differ from the structure of the skin has 15-16 laye mainly for protection. Conversely, the top corneum layer of the lips contains about only 3-4 layers and is very thin compared with the typical facial skin. The lip skin contains few melanin cells. As a result,

blood vessels appear more clearly through the skin of the lips and give a lovely pinkish color to the lips. The lip skin has no hair follicle and no sweat glands. Therefore, it does not have sweat and body oil that protect it from the outside environment.

Anatomy of lip







The lip serve as organs of prehension, suction and speech. It is composed of the skin, superficial fascia, orbicularis muscle and the muscles inserted around it (areolar tissue and mucous membrane).the areolar tissue contain coronary vessels which completely encircle the buccal orifice near the free merging of the lips. Coronary vessels are the superior and inferior coronary arteries which arise from the facial. The superior coronary is larger than the inferior anastomoes with its fellow of the positive side and gives off small artery to the septum arteriaseptinasi

Characteristic of lip balm

- 1) resistance to temperature variation
- 2) Pleasant flavour
- 3) Smoothness during application
- 4) Innocuousness
- 5) addherance and easy intentional removal

Application of lipbalm

1) Lip balms are formulations applied onto the lips to prevent drying and protect against adverse environmental factors.

2) Natural lip balm being a product intended for uses by both men and women

3) The lip balm it is necessary to balance the concentration of the main ingredient including oils and wax and other excipients

4) Lip balm are often eaten away by the use and hence regulators have a microscopic lookate the ingredients that go in to the lip balm

Advantages of lipbalm

- 1) Lip balms help to protect the natural health and beauty of the lips.
- 2) Lip balm products help to protect lips affected by cold sores, chapping and dryness.
- 3) Sun block lip balms are proved to prevent ultraviolet rays from hurting the lips.
- 4) They are not gender specific products and both men and women can use them.
- 5) The use of natural lip cosmetic to treat the appearance of the face and condition of the skin.
- 6)Help shield your lip from dry air, wind and especially cold temperature

Disadvantages of lipbalm

 commomn ingredients used in natural lip balm
Lip balm addiction is another disadvantage usually seen with the use of them.
Natural oils have other disadvantages such as

greasier, comedogenic, and less spreadability 4) Lip balms made of low quality ingredients can harm the lips seriously. Such lip balms may dry out the lips instead moisturizing it.

5) The naturally derived colors and flavours are more difficult to obtain and also have issues related to stability in the products.

Lip disorder

1) Swelling-An allergic reaction can make the lips swell. The reaction may be caused by sensitivity to certain foods or beverages, drugs, lipstick, or airborne irritants. When a cause can be identified and then eliminated, the lips usually return to normal. But frequently, the cause of the swelling remains a mystery. A condition called hereditary angioedema may cause recurring bouts of swelling. 2) Sun Damage: Sun damage may make the lips, especially the lower lip, hard and dry. Red speckles or a white filmy look signal damage that increases the chance of subsequent cancer. This type of damage can be reduced by covering the lips with a lip balm containing sunscreen or by shielding the face from the sun's harmful rays with a widebrimmed hat

3) Sores: A raised area or a sore with hard edges on the lip may be form of skin cancer. Other sores may develop as symptoms of other medical conditions, such as oral herpes simplex virus infection or syphilis. Still others, such as keratoacanthoma, have no known cause

4) Allergic Contact Chelitise :The most common cause of contact chelitise includes the use of personal hygiene products such as toothpaste and mouthwash which contain numerous antibacterial agent, essential oils and preservative.

5) Inflammation: With inflammation of the lips (cheilitis), the corners of the mouth may become painful, irritated, red, cracked, and scaly. Cheilitis may result from a deficiency of vitamin B2 in the diet.



st of Natural Ingred		T		
Base	Oil	Colouringagents	Flavouring agents	Antioxidant
Bees wax	Coconutoil	Beetroot	Orange	Aloe vera
Whitebeeswax	Oliveoil	Saffron	Vanilla	Greentea
Coccabutter	Almondoil	Honey	Mango	Rosemery
Candelillawax	Sunfloweroil	Cherry	Honey	Blueberry
Olivewax	Castoroil	Carrot	Cherry	Grapeseed

II. MATERIAL AND METHOD

1) Base

Waxes shapean critical organization of components for the manufacture ofprivate care merchandise and ornamental cosmetics. Waxes areutilized inextraordinary industries and merchandise. They are predominately utilized **in** candles,

howeveradditionallydiscovercriticalprograms in food, cosmetics and pharmaceutical industries asthickeners/emulsifiers. Chemically, waxes are complicated combinations of hydrocarbons and fatty acids blended with esters. Waxes are harder, muchless greasy and greater brittle than fats. They are very proofagainst moisture, oxidization and bacteria. There are 4classes of waxes as: (a) Animal Waxes: Beeswax, lanolin, spermaceti; (b) Plant Waxes: Carnauba, candelilla, jojoba; (c) Waxes: paraffin. Mineral Ozokerite, microcrystalline, ceresin; (d) Synthetic Waxes: Polyethylene, carbowax, acrawax, stearon. The maximumbroadly used waxes for beautymerchandise are beeswax, carnauba and candelilla wax

2) Oil

The oil mixture is required to blend properly with the waxes to provide a suitable film on

theappliedlipskin.Anidealmixtureisonewhichenable stheproducttospreadeasilyandproducesathinfilmwit hgoodcoveringpower.Sunfloweroroliveoil,bothoils willgiveagreatglosstolips.Castoroilisusedinmanylip balmbecauseofitsgoodqualities,thoughnowdayssom eotheroils or solvents are being used. A refined grade castor oil is of good color and is odorless andtasteless. Castor oil is a very good plasticizing agent. An antioxidant is to be added to the castoroil against rancidification though it is not as prone to rancidification as other vegetable oils likeoliveoiloralmondoil.Jojobaoilisknownforitsskin

softeningproperties which can preventlips from dehydr ating

3) Colouring Agent :

colour have been used in cosmetics ,since time immemorial ,by human being basically the desire to buy a cosmetic product is controlled by there senses namely sight touch and smell so colour is one of the most important ingredients of cosmetic formulation The most important characteristic of colorants is compatibility with other ingredients and medicament. It should be free from objectionable taste and odour and must be readily available and inexpensive. The examples of natural colorants are obtained from beet root, saffron, turmeric, etc. Saffron is dried stigma of flowers of the plant Cross Sativuslinne. It is a perennial plant and is grown in Kashmir in India. It is also cultivated in Spain, France, Greece and Iran. The principle coloring agent in saffron is crocin. Crocin is yellow powder, a glycoside in nature and easily soluble in water

4) Antioxident:

Many cosmetics that are marked nowadays often contain antioxidant as the active ingredients. It is known that oxidation reaction could produce free radicals. Which can start chain reaction that will damage skin cells. Increasing the number of free radicals could initiate the wrinkling, photoaging, drying of the skin. It is well known that plants can produce natural antioxidant compounds that could control the oxidative stress caused by sunlight and oxygen. The cosmetic formulation usually contain various combination of



plant extract aloe vera, green tea, rosemery ,grape seed, blueberry.

5) Flavouring Agent:

Flavours or flavouring agent are usually required to mask the four basic taste sensations. Flavour refers to a mixed sensation of taste, touch, smell, sight and sound, all of which involve a combination of physiochemical and physiological actions that influence the perception of substances. Flavours used in lip balm should not contain any ingredient which may be irritating or toxic. These should have good taste and should be able to mask fatty odour of the base flavouring agents are an essential component to mask the odour of the fatty or wax base as well as to impart an attractive flavor. The flavours should not be very strong as to clash with or overpower other flavors that may be used concurrently with the lip balm. Perfumes of the fruit flavor type have been advocated as well. Also something edible can be used the The commonly used flavours are apricot, strawberry, cherry, honey. Honey has the capacity to serve as a natural food preservative

Bees Wax:



Fig:2BeesWax

Synonyms: ceraalba,ceraflava.

Biological Source -Bees wax is the purified wax obtained from honey comb of Hive Bee, Apis Mellifera, Linn Family-Apidai

Chemical Constituents -Beeswax contains myricin, which is melissyl palmitate; melting point64°C, free cerotic acid (C26H52O2), myricyl alcohol (C30H61OH) is liberated when myricyl palmitateis saponified. Melissic acid, some unsaturated acids of the oleic series, ceryl alcohol, and 12 to 13% higher hydrocarbons are present. **Uses-**Beeswax is used in the preparation of ointment, plaster and polishes

AloeVera:



Fig:2AloeVera

Synonyms-Aloe,Mussabar,AloeForex. Biological Source–It consist of dried and fresh mucilage of AloeVera Family-Asphodelaceae,Liliaceae

Chemical Constituents-

-it contains anthraquinones like rhein ,aloin,emodin,mineral and mucilage. chemically mucilage is a polysaccharide consisting of salts of poly uronic acid.

Uses -

- 1) It help to improve flexibility
- 2) It is usually applied with carminative.
- 3)It also reduces eczema.
- 4)It also help to reduce ageing and wrinkles.

Beet Root:



Fig:3BeetRoot

Synonyms -sugar beet, chukandar ,spinach beet.



Biological sources -It consist of fresh beta vulgarise . Family -chenopodiaceae. Chemical Constituents -red betalain, beta xanthines, kaempferol glycoside,betain. Uses -1)May help balance energy intake.

2)Reduce tan.

Olive Oil



Fig:4Olive Oil

Synonyms Oleum olivae, Sweet oil, Salad oil. Biological sources -olive oil is a fixed oil obtained by expression from pericarp of the ripe fruits of Olea europoea..

Family -Oleaceae

Chemical Constituents -Glycerides of oleic acid, Palmitic acid, stearic acid, linoleic acid and arachidic acid.

Uses -1)It help preventing stroke.

2)It helps in curing acute pancreatitis.

3)It help to strengthening bone.

Honey :



Fig:5Honey

Synonyms-madhu,madh,mel,purifiedhoney

Biological Source -Honey is a viscid and sweet secretion stored in the honey comb by variousspecies of bees, such as Apis mellifera, Apis dorsata, Apis florea, Apis indica and other species ofApis

Family-Apideae.

Chemical Constituents - The average composition of honey is as follows: noMoisture 14–24%, Dextrose23–36%, Levulose(Fructose)30–47%, Sucrose0.4–6%, DextrinandGums0–

7% and Ash0.1–0.8%. Besides, it is found to contain small amounts of essential oil, beeswax, pollen grains, formic acid, acetic acid, succinic acid, maltose, dextrin, colouring pigments, vitamins and anadmixture of enzymes.

Uses- 1)It is used in treating burns and wonds.

- 2) It is used in natural cough syrup.
- 3) It is help to improve digestion.

Method of preparation:

Weight accuratly all the required ingredient as per table . in a clean evaporating dish, take bees wax firstly and melt it on a water bath and stirring till it melts completely then colouring agent. dissolved in oil and add to the mixture of melted wax. add antioxidant agent finally add flavouring agent and continuously stirred to get a homogenised mixture . The mixture should be stirred vigorously until a smooth emulsion form. Then, this mixture could be poured into clean and lubricated moulds and allow them to cool to achieve contraction of the waxes to facilitate easy removal of the balm.

Evaluation parameter of lipbalm:

Melting point : For melting point, the sample of lip balm was taken in a glass capillary whose one end was sealed by flame. The capillary containing drug was dipped in liquid paraffin inside the melting point apparatus which was equipped with magnetic stirring facility. Melting was determined visually and melting point was reported.

Organoleptic properties : The lip balm was studied for the basic organoleptic characters such as colour, odour, taste and appearance.

Test of spreadability : The test of spreadability is carried out by applying the product at room temperature repeatedly on the glass slide to visually observe the uniformity in the formation of the protective layer and it is observed that wheather the



stick fragmented, broke or deformed during the application. For this test following criteria were established by analyst:

G - Good: uniform, perfect application, no fragmentation, without deformation of lip balm.

 ${\rm I}$ – Intermediate: uniform, leaves few fragmentation, appropriate application, few deformation of lip balm.

B- Not uniform, leaves many fragments, inappropriate application, intence deformation of the lip balm.

PH:The melting temperature and PH of lip balm are also commonly evaluate by capillary method and PH meter respectively.

III. CONCLUSION:

Due to tremendous demands of beauty enhancing products cosmetics industry is flourishing. This work has reviewed the current status of natural lip balm products. This also studied all aspects of natural lip balm including natural ingredients, formulation methods, evaluation and applications. Hence it can be concluded that the extensive literature study has been performed on the natural lip balm products and shown wide scope for such products in future

REFERENCES:

- V.P. Kapoor, Herbal cosmetics for skin and hair care, Natural Product Radiance. 4 (2005) 306-314.
- [2]. B. J.Kukreja, V. Dodwad, Herbal mouthwashes-A gift of nature, International Journal of Pharma and Bio Sciences. 3 (2012) 46-52.
- [3]. Rushikesh M sankpal, Shrutika R. Kadam,et.al International Journal of Advanced Reserch inScience Communication and Science Vollume 2,Issue 1,June2022
- [4]. A.R. Fernandes, M.F. Dario, C.A.S.O. Pinto, T.M. Kaneko, A.R. Baby, M.V.R. Velasco, Stability evaluation of organic Lip Balm, Braz. J. Pharm. Sci. 2 (2013) 49.
- [5]. R.G. Harry, J.B. Wilkinson, Harry's Cosmeticology, six ed. Leonard Hill books and Intertext publisher, London, 1973.
- [6]. S.A. Sahar, M. Soltan, M.E.M. Shehata, The effects of using color foods of children on immunity properties and liver, kidney on rats, Food and Nutrition Sciences. 3 (2012) 897-904.
- [7]. Fisher AA. Reactions of the mucous membrane to contactants. Clin Dermatol. 1987; 5:123-136.

- [8]. Lip Disorders Lip and Tongue Disorders Merck Manual Home Edition.mht <u>http://www.merckmanuals.com/home/mou</u> <u>th and dental disorders/lip and tongue</u> <u>disorde</u> rs/lip_disorders.html (assessed on 30 November 2014)
- [9]. C.K.Kokate,S.B.Gokhale,Pharmacognocy-II.
- [10]. B.N. Basha, K. Prakasam, D. Goli, Formulation and evaluation of gel containing fluconazole-antifungal agent, International Journal of Drug Development and Research, 3 (2011) 4.
- [11]. Sharma PP, cosmetics- Formulation, manufacturing and quality control, Edn 5. Vandana publications, Delhi, 2008, 297-313.
- [12]. H. I. N. Nasution, "Formulation of Lip Balm using Combination of Palm Kernel Oil (PKO) and Red Palm Oil (RPO) as Lip Moisturizer," Final project, Universitas Sumatera Utara, 2018.