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# FORMULATION AND EVALUATION OF **ORGANIC LIP BALM**

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#### I. Introduction

#### **HERBAL COSMETIC –**

This plays significant role in today's life.

Moreover current trend is going green in all industries including Mainly cosmetic to adopt more natural way of life

The preferable choices and natural food herbal, medicines and natural curing practices for healthy life and also there is much demand for organic vegetable product.

The usage of herbal cosmetic has been used for folds in personal care system. Natural product have been used for folk medicine purpose throughout the whole world

These were used from thousands of years many of these have pharmacological properties such as antimicrobial anti-inflammatory and others. These are useful to human

Herbal extract are cultivated all over the world and is prime name is horticulture sector. Cosmetic made up of herbal extract for skin care and hair care is very popular for their reliability Coloring lips is the ancient practice to enhance the beauty of lips and give glamour touch to face

This can be observed from lip jelly, lip balm ,lipstick Marketed in hundred of shed of colors to satisfy the demand

This work was intended for extensive study of lip balm. This product shows organoleptic properties which are useful for humans.

The organoleptic properties such as color, odor, and pH spread ability, melting point, boiling point etc.

#### 2- lip and regular skin structure

The lips are more attractive than the regular skin Generally the top corneum layer of regular skin have mainly 15-16 layers And very more compared of lip skin

Application of lip balm

Lip balm is formulation of applied onto the

Lips to prevent dying and protect against adverse factor numerous lip Balm of chemical origin is currently available in market

The market companies like Nivea, Himalaya,

Blistex etc. the cosmetic literature survey limited data on these types Of formulation

The similarity extends to include organoleptic

And stability requirement such as resistance to temperature variation, Pleasant taste smoothness during appliance lip balm should not be Consider equivalent to lip gloss.

Many people seek to have facial weekly scrub Daily lotion daily and many other products to keep glowing and Healthy skin.

## Advantages

It helps to protect the natural health and beauty of skin Sun block lip balm these are proved to prevent hearting rays

These are not gender specific product

## Disadvantages

Lip balm made of low quality ingredient can harm

Some contain allergens that cause rash Certain product can be dangerous and cause physical damage

#### 2-Literature review

Cosmetic are incredibly in demand Since historical time these days focus shift's ore toward naturally Derived cosmetic product.

Lip balm offers a natural ways to maintain and Promote healthy tips current cosmetic product are based on chemical Ingredients .with thousand of side effects In this work an attempt Has made to study by using natural ingredient used to formulate Natural lip balm

Lip balm should not be considers equivalent to Lip gloss with the former been used by both men and women The ingredient of lipstick is fatty acid such as Waxes oil etc which provide them consistency

Lipstick also contain additives also dyes and

Pigment Claudineia aparecida sales de oliveira, telma Mary kaneko Andre, Rolim Baby, Maria Valeria robles; Stability equation of oganic lip balm; Brazilian Journal of pharmaceutical sciences

## 3-plan of work

Selection of natural ingredient

Selection of base

Selection of method of preparation

Preparation of lip balm

Evaluation of lip balm

Final result

#### 4-Material And Method

#### 1- Base

Waxes are important group ingredient for manufacture of personal Care product and decorative item waxes are used in different industry and

They are predominately used in candles but these also find important

Application in food, cosmetic and pharmaceutical industries as thickener Chemically waxes are complex mixture of hydrocarbon and fatty acid Combined with ester . waxes are harder less greasy more brittle than fat.

They are very resistant to moisture, oxidization and bacteria, there are four Categories of waxes

#### 2- Moisturizer

#### a- Coconut oil:

Coconut oil is natural moisturizer it look the moisturizer of your lips And make them soft the oil form a lipid layer on the skin that decreases water evaporator And the resultant dryness it contain spf (sun protection factor)

Therefore a natural sunscreen that protects the delicate skin of your Lips from harmful sun rays the oil is antibacterial and prevents the growth of bacteria and Other gem on created lips It's good for skin and chapped lips by reducing inflammation coconut

Oil encourages collagen production this aid skin repairs and heals damage lips

#### Emulsifier

b- Castor oil

Oil with the high degree of unsaturated fatty acid (oleic, arachidonic, linoleic acid) Castor oil is used in many lip balm because of good qualities

Through now days some others oil or solvent are been used A refined grade

Castor oil is of good color and is odorless and tasteless Castor oil is very good plasticizing agent an antioxdicant is added To the castor oil against rancidification through it is not as prone to

Rancidification as other vegetable oil and almond oil

#### c- Vitamin E-oil

Vitamin E oil is well known antioxidant that plays an essential Role in lip balm

Coloring agent -

Colorant and coloring agent are mainly used to import A distinctive appurtenance to cosmetic product Basically a desire to buy a cosmetic product is Controlled by three senses namely sight touch and smell as such as color is an

Important ingredient of cosmetic formulation

The color is imparted to the lip in two ways

- a- By staining t skin with a solution of dyestuff which Can penetrate outer layer of skin
- b- By covering lip with color layer which serve to hide

Any skin roughness and give a smooth appearance The colorant derived from natural source should be Nontoxic with no physiological activity the most important characteristic of color Is compatibility with other ingredient and medicament

It should be free from objectionable taste and odor and must be Readily available and in-expensive example- beetroot, saffron, turmeric

#### Beet root -

Beet root; red beet root of beta vulgaris the beta ccyannis And yellow xanthema which are collectively described as betalaines

The red color of these dyes can be used as colorant cosmetic And pharmaceutical formulation

## Flavoring agent –

Flavor or flavoring agent are usually required to mask the four Basic taste sensation

Flavor refer to mix sensation of taste, touch, smell, sight and Sound all of which involve a combination of physiochemical and

Physiological action that influence the substance

With the expansion of technology in the flavor industry many Artificial or imitation flavor have been created the creation of an accept able

Flavor is more of art than a science Flavor used in lip balm should not contain any ingredient Which may be toxic these should have good taste and should be able to mask Fatty odor of base the flavors should not be very strongly as to clash with

Overpower other flavor are apricot, strawberry, raspberry, cherry, honey etc

#### Vanilla extract -

Vanillin and benzaldehyde are leading aromatic aldehyde in the Flavor and fragnance industry

Vanillin is chemically a 4-hydroxy 3- methoxybenzaldehyde or Vanillin aldehyde it is most common flavor chemical used in a bond range of

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Flavor and fragnance

Market offer synthetic vanillin, natural vanillin and villain Extract

#### c- Honey

Honey has ability to help lips retain moisture it act as moisture Barrier protecting lips from exterior factor that would strip the skin of their

Natural moisture in this way honey is natural safeguard against dry and Cracked lip

In addition to keeping lips moisturized honey also can provide Protection against infectious agents honey has natural antibacterial properties

In it that make it helpful in treating the wound for this reason injuries or Wounds on lips might benefit from application of honey

#### Formulation Of Lip Balm

- 1- Bees wax
- -Taken from laboratory
  - 2- Coconut oil
- -market preparation of coconut oil is taken
  - 3- Castor oil
- -taken from collage laboratory
- 4-honey
- -market preparation of honey is taken
- 5-vanillin
- -taken from collage laboratory
- 6-vitamin E capsule
- -collected from medical store
- 7-beet root
- -Collected from market
- 1- Weight all the incipient
- 2- Add coconut oil bees wax castor oil in beaker and melt it in water bath At 55-60 degree celceius
- 3- Add honey and vitamin E into beaker and mix vigorously so that honey Will not clump

- 4-Add vanillin flavor
- 5-Now take the extract of beet root in the castor oil add the extracted and Filtrated liquid into mixture
- 6- Pour the content into container before pouring the mixture in container On the container apply glycerin with help of cotton
  - 7- put the filled container into ice bath for 10 min
- 6- Evaluation of lip balm
  - a- Melting Point -

The melting point apparatus (VEEGO mode Vmp-D india )used to

Determine melting point of lip balm to determine the melting point sample of

Lip balm was taken in glass capillary whose one end was sealed by flame

The capillary containing drug was dipped in liquid paraffin inside

The melting point apparatus which are equipped with magnetic stirring facility

b- Organoleptic properties

The lip balm was studied for organoleptic character such as color

Odor, taste, appurtenance

c- Test of Spread ability

The test of spread ability consisted of applying the product

Repeatedly onto a glass slide to visually the uniformity in the formation of the

Protective layer and whether the stick fragmented deformed or broke during

Application

G-Good-uniform no fragmentation perfect application without deformation

Of lip balm

- I-Intermediate -uniform leaves few fragment appropriate application little
- II-B-Bad- not uniform leaves many fragments difficult or in appropriate application intense deformation of lip balm

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## D- Measurement Of ph

The pH of lip balm was determined in order to investigate the possibility of any side effect as an acidic or alkaline pH may cause irritation of lip it was determined to keep the pH of tablet as close to neutral as possible

The pH study was carried out by dissolving 1gm of sample into 100ml water

## E- Stability Studies

Prepared lip balm was placed for accelerated stability studies at room temp for 30 days after 30 days it was characterized for organoleptic properties, melting point, spread ability and pH

#### 7- Result And Discussion

Color -Red Appreance -Excellent Smooth Odor -Pleasant

### A- Melting Point

Melting point of lip balm was found to be range 68 degree celceius to 69 degree celceius

Color -Red Odor -Pleasant Melting point- 69 Spread ability- Good pH-7.2

#### 8- conclusion

The formulation stored at room temperature and refrigerator showed similar behavior during stability test the organoleptic characteristic were stable and spread ability was emulated as good storage under condition was consider adequate particularly because the functionality of product was maintained

All the test were excellent and perfect lip balm was formed.

#### future scope

The organic lip balm provides numerous essential nutrients to maintain normal function of lip

The utilization of organic and natural cosmetic enhance many folds in personal hygiene and health care system use of bio active ingredient of cosmetic formulation have valuable effect on body features and provide nutrient which are essential for maintaining healthy and beautiful lips

At last it can be concluded that the lip balm formulation has been successful.

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