



Formulation and Evaluation of Polyherbal Lip Scrub

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ABSTRACT: This abstract presents the formulation and evaluation of polyherbal lip scrub. Lips are most sensitive part which is affected by many factors. Exfoliation is required to make them healthy and good. In this study, polyherbal lip scrub was formulated by using combination of natural ingredient on their anti-oxidant and brightening properties. The formulation is comprised by pink guava, sugar, shea butter and jojoba oil which are carefully selected on their potential use on lips. There are many marketed scrub are contain synthetic ingredient that may cause irritation in that case herbal product are safer and effective for regular use. The formulation was carefully crafted to balance effective exfoliation with intense moisturization. The result of evaluation confirmed the scrub's ability to restore softens and provide naturally glossy lips thus highlighting the benefits using natural plant-based product.

Keywords: polyherbal formulation, lip scrub, natural exfoliant, pink guava, shea butter lipcare, herbal ingredient, exfoliation

1. INTRODUCTION:

Lips are the essential part of the human face and they play vital role in facial expression, speech, eating and physical attraction. They are made up of skin, muscle and mucous membrane. which are surround the mouth and it's divided into two parts : the upper lips and the lower lips.

Main Parts of the lips:

1. Upper Lip
2. Lower Lips
3. Vermilion Border
4. Cupid's Bow
5. Philtrum
6. Oral Commissure
7. Mucosal Surface

Layers of lips:

1. Skin layer
2. Vermilion Zones
3. Muscle Layer
4. Submucosal Layer
5. Mucous Membrane

SCRUB:

Scrub is a skincare product designed to exfoliate the skin by removing dead skin cells, dirt and impurities.

It contains small granules, beads or natural exfoliants that helps in deep cleansing and improving skin texture. It can be used for face, body, lips and scalp which is depending on their formulation.

Types of Scrubs:

1. Face Scrub
2. Body Scrub
3. Lip Scrub
4. Scalp Scrub
5. Hand and Feet Scrub

POLYHERBAL LIP SCRUB:

Lip scrub is a skincare product which is made by natural ingredient herbs and plant based material.

It is gentle exfoliator that helps to remove dry and flaky skin from the lips and also helps in lip discoloration. It is used to improve the lip texture and make them soft, smooth and healthy.

It contain a natural exfoliant like sugar or salt to remove dead skin and moisturizing ingredient like honey, jojoba oil, shea butter which are help to nourish and protect the lips.

Lip Disorders:

- Dry lips
- Chapped/Cracked lips
- Lip discoloration

2. EXPERIMENTAL METHOD:

Firstly wash guava fruit and mint leaves, then peel off guava and cut it into small pieces then dry both of them in sunlight for 2-3 days. After drying, grind both ingredients individually and make powder of them.

3. METHOD OF FORMULATION:

- **Composition of 25gm. formulation of polyherbal lip scrub:**

Sr no.	Ingredient	Quantity	Action
1	Sugar	17gm	Natural exfoliant
2	Pink Guava powder	1.8gm	Anti-oxidant, brightening agent
3	Mint powder	0,1gm	Anti-bacterial, cooling properties
4	Shea butter	2gm	Emollient
5	Honey	2.5ml	Humectants
6	Jojoba oil	0.5ml	Moisturizing effect
7	Vitamin-E	0.5ml	Anti-oxidant, healer
8	Rose oil	0.1ml	Fragrance
9	Sodium benzoate	0.5gm	Preservative

- **Method of preparation of polyherbal lip scrub:**

1. Firstly weigh all ingredients as required quantity.
2. Then melt the shea butter first after melt it completely add honey into it and mix it well by continuous stirring.
3. Then mix all powdered ingredient like sugar, pink guava powder and mint powder and add them slowly into it by continuous stirring.
4. Add jojoba oil and vitamin-e into it after that sodium benzoate is dissolved in quantity sufficient water then it added into the mixture.
5. Add rose oil into it for fragrance and mix them well until smooth paste like texture is appear.
6. Then lip scrub is ready.

4. EVALUATION OF POLYHERBAL LIP SCRUB:

- **colour:**

The colour of the lip scrub is visually analyzed.

- **pH test:**

pH of lip scrub was done by using pH meter. pH was 5.5

- **Spreadability test:**

The spreadability was expressed in terms of time in seconds taken by two slides to slip off from the scrub, placed in between the slides, under certain load lesser the time taken for separation of the two slides better

the spreadability. Two sets of glass slides of standard dimension were taken. Then one slide of suitable dimension was taken and the scrub formulation was placed on that slide. Then other slide was placed on the top of the formulation. Then a weight or certain load was placed on the upper slide so that the scrub between the two slides was pressed uniformly to form a thin layer.

- **Stability test:**

The purpose of stability testing is to provide evidence on how the quality of drug substance or drug product varies with time under the influence of variety of environmental factors such as temperature, humidity and light and enables to recommend storage condition and to predict.

The shelf life Stability study for scrub was performed at accelerated condition i.e. 25°C.

- **Washability test:**

A small quantity of scrub was applied on the lips and start gently rubbing it for 5-10 minutes then it should be washed with water and result was observed that the scrub was easily removed by gently rubbing for few minutes by washing it with water.

- **Skin irritation test:**

It was carried out by applying scrub on left hand dorsal surface then it is checked for irritancy for an interval up to 1-2 hrs and reported.

- **Anti-microbial test :**

Sr.No	Sample ID	Staphylococcus Aureus
1.	Polyherbal lip scrub	Absent

5. RESULT:

- Evaluation Parameter:

Sr no.	Parameter	Result
1	Colour	Light brown
2	Odour	Pleasant
3	Texture	Slightly rough
4	Ph	5.5
5	Spreadability	4 cm
6	Washability	Easily washable

7	Skin Irritation	No irritation
8	Microbial test	Absent

6. CONCLUSION:

The usage of natural cosmetic product has increased that leads to the development of safe and effective herbal formulation. Due to environment factor lip are become dry, chapped and pigmented. in this study formulated lip scrub was prepared by using natural bioactive ingredients to provide effective exfoliation, hydration and nourishment for the lips.

Many marketed lip scrub are prepared by using synthetic ingredient and it also give side effect so that it's better to use scrub by prepared by natural herbal ingredient. Formulation of lip scrub done by fusion mixing method and further evaluated by various evaluation parameter as physical appearance, ph , stability, spreadability and non-irritancy test and it is give good results which promote lip health and therapeutic benefits in lipcare.

7. FINAL FORMULATED LIP SCRUB:



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