



# Formulation and Evaluation of Polyherbal Face Cream

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**ABSTRACT:** This polyherbal face cream is a natural skin care. Polyherbal face cream is used to treat acne and pimples. Containing , rich plant –based ingredients polyherbal face cream removes excess oil without removing nutrients the skin. This formulation containing beetroot, Shea butter and rose oil this ingredient have their own special benefits for oily skin. Experimental work for making this formulation used ingredients are collected and making their extraction with various extraction methods. Prepared formulation was evaluated for various parameters like PH , spread ability.

Table were evaluated for PH , colour , odour , spread ability , wash ability , etc. The herbal containing face cream is more better than synthetic that contain chemical with less side effects. Conclusion from this formulation study it is concluded that herbs contains like beetroot, Shea butter ,and rose oil that are more suitable than synthetic face cream with less side effects.

**Keywords:** Polyherbal formulation, face cream ,natural exfoliant, beetroot, shea butter, herbal ingredient,

## 1. INTRODUCTION:

The skin is the largest organ of the body. The skin protects us from microbes and the element, helps regulate body temperature, and permits the sensation of touch, heat, and cold.

Types of skin:

1) Normal skin:

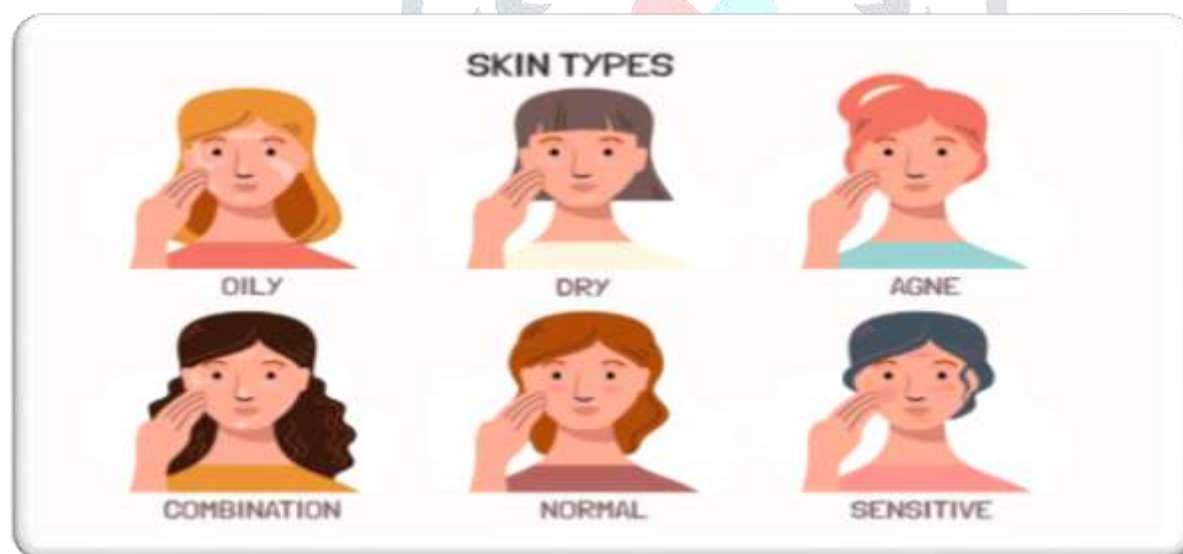
- No acne problem
- Neither too dry nor extra oily
- Not sensitive

2) Oily skin:

- Presence of blackheads
- Acne
- Pimples

3) Acne-prone skin:

Regular outbreaks of acne. Appearance of more whitehead.



## CREAM:

Creams are the topical preparations which can be applied on the skin. Creams are defined as “viscous liquid or semi-solid emulsions of either the oil-in-water or water-in-oil type” dosage forms which consistency varies by oil and water. Creams are used for cosmetic purposes such as cleansing, beautifying, improving appearances, protective or for therapeutic function. These topical formulations are used for the localized effect for the delivery of the drug into the underlying layer of the skin or the mucous membrane. These products are designed to be used topically for the better site specific delivery of the drug into the skin for skin disorders.

## Types of cream:

1. Face cream
2. Body cream
3. Hand and feet cream

## 2. EXAPRIMENTAL METHOD

1. Firstly wash and peel fresh beetroot.
2. Chop into small pieces and dry of them in sunlight for 2-3 days.
3. After drying ingredient in Grind to fine powder.
4. In a double boiler, melt shea butter and beeswax together
5. remove the oil base from heat.

### • METHOD OF FORMULATION:

### • Composition of 20gm formulation of polyherbal face cream:

Sr No	Ingredients	Quantity	Action
1	Liquidparaben	9ml	Lubricating
2	Beeswax	2.5gm	Emulsifying agent
3	Borax	0.3gm	Emulsifying agent
4	Methyl paraben	0.2gm	Preservative
5	Beetroot	2gm	Anti-acne
6	Rose oil	0.5ml	As a Fragrance
7	Shea butter	2.5gm	Smoothing agent
8	Vitamin E	1ml	Anti-oxidant
9	Aloe vera gel	3gm	Moisturizing

### Method of preparation of polyherbal face cream:

1. Heat liquid paraben & Beeswax in a borosilicate glass beaker at 75 Cand maintain the heating temp .(Oil phase)
2. Another beaker add borax , methyl paraben in distilled water. and to get a clean solution .(Aqueous phase )

3. Then add a measured amount of Beetroot, Vitamin E Capsule, Aloe vera gel, rose oil, shea butter and stir vigorously until it forms a smooth cream

4. It's give a smooth texture to the cream and to mix all the ingredients properly.

5. This method are know as the slab technique all extemporaneous method of preparation of cream

- **Formulation cream:**

No	Ingredients	F1	F2	F3	F4
1	Liquid paraben	10ml	9ml	9ml	<b>9ml</b>
2	Bess wax	3.5gm	2.5gm	2.5gm	<b>2.5gm</b>
3	Borax	0.2gm	0.3gm	0.3gm	<b>0.3gm</b>
4	Methyl paraben	0.3gm	0.2gm	0.2gm	<b>0.2gm</b>
5	Beet root	2gm	1gm	1gm	<b>2gm</b>
6	Rose oil	0.5ml	0.5ml	0.5ml	<b>0.5ml</b>
7	Shea butter	1.2gm	2.5gm	3gm	<b>2.5gm</b>
8	Vitamin E	1ml	1ml	1ml	<b>1ml</b>
9	Aloe vera gel	3gm	3gm	3gm	<b>3gm</b>
10	Water	As req	As req	As req	<b>As req</b>

4.

## EVALUATION OF POLYHERBAL FACE CREAM:

- **Colour:**

Dark Pink



- **Ph test:**

Ph of face cream was done by using ph meter was 5.4



### Spreadability test:



Adequate amount of sample is taken between two glass slides and a weight of 100gm is applied to the slides for 5 minutes. Spreadability can be expressed as shown.

- **Stability test:**

The purpose of stability testing to check how the quality of drug substance or drug product varies with time under variety of environment factors such as temperature, humidity, light and storage condition. The shelf life stability for cream was preformed at condition and keep it cool place.

- **Skin irritation test:**



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

## 5.RESULT AND DISCUSSION:

- Evaluation Parameter:

Sr No.	Parameter	Result
1	Colour	Dark pink
2	Odour	Pleasant
3	Texture	Smooth
4	Ph	5.4
5	Washability	Washable

## 6. CONCLUSION:

Natural remedies are more acceptable in belief that they are safer with fewer side effects than the synthetic ones. Polyherbal formulations have growing demand in the world market. It is a very good attempt to establish the polyherbal face cream containing beetroot, Rose oil, Shea butter. This study revealed that the developed herbal formulations comparatively better than other formulation. The polyherbal cream is one of the most well recognized acne treatments, polyherbal face cream used as anti acne, glowing, prevent from dark spots Preferably they used for oily and dry skin physiology.

It provides numerous essential nutrients to the required for maintaining the normal skin functioning. It also promotes the natural glow to the skin. The polyherbal face cream was prepared from various herbs like beetroot, Rose oil, Shea butter, Vitamin E and aloe vera gel and other agent as beeswax, methyl paraben, liquid paraben, borax. The various parameters like color, pH, wash ability, irritability and spreadability was checked and evaluated hence, from the present investigation. It was found that the formulated polyherbal face cream was found to be more efficient as compared to the marketed face cream. First time develop beet root anti acne Cream compare to other markets product. Marketed product we can see almost use ingredients like neem, turmeric, green tea but in formulated polyherbal cream use beetroot.

## 7.FINAL FORMULATION FACE CREAM:



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