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## Research Article

# Formulation And Evolution of Face Glowing Cream

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## ABSTRACT

Herbal creams are mainly intended for beautification of skin. The main aim of the present research work is to prepare a face cream using different herbs and the prepared cream is evaluated for stability and anti bacterial activity. The ingredients used in the formulation (F1, F2, and F3) are Aloeveragel, Tulsi leaves, glycerin and turmeric. The formulated cream is evaluated for the various parameters like organoleptic properties, pH stability, skin irritation, and antibacterial properties. F1 formulation has shown good stability and antibacterial properties compared, to marketed cream. Aloeveragel, Tulsi are medicinal plant they are used as traditionally from ancient year in various herbal medicines such as Ayurveda, Siddha, and Homeopathic. Cosmetic and some medicinal products are made up from the mucilaginous tissue in the centre of aloe vera leaf and called Aloe vera gel. The herbal cream is basically water in oil type of emulsion. The natural ingredients chosen for preparation of herbal cream are turmeric, aloeveragel and Tulsi. The choice of these ingredients is based on their individual properties.

## INTRODUCTION

Creams are semisolid dosage forms containing more than 20 percent water or volatile components and typically less than 50 percent hydrocarbons, waxes, or polyols as vehicles. Face cream is used to supply your skin with a specific set of ingredients based on your skin's needs. Typically, a face cream contains one primary active ingredient. This is the ingredient that is usually included in the name of a skincare product that has the most significant effect on your skin.

Creams are semi solid preparation of Oil and Water.

### O/W

### W/O

O/W Creams which are composed of small droplets of Oil dispersed in continuous Water Phase. O/W type are more comfortable and more acceptable cosmetically they are less greasy, easily washed off using Water. W/O Creams which are composed of small droplets of Water dispersed in

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continuous Oil Phase. W/O types are more difficult to handle they are also moisturizing more as they provide oily barrier which reduce water loss from stratum corneum<sup>(7,8)</sup>

#### Uses:

- Cleansing
- Emollient Effect
- Aid in retention of Moistures (W/o Creams)
- Physical/ Chemicals barrier like Sun screen

#### Face Creams:

Face cream is a cosmetic product, typically a semi-solid emulsion, used to soften, cleanse, and moisturize the skin, often improving complexion. It's a daily moisturizer that helps keep the skin supple and smooth, and can also help reduce or prevent wrinkles. Face creams come in various formulations to address different skin types and concerns, such as oily, dry, combination, or sensitive skin. Face cream is a daily moisturizer that aims to improve skin health and appearance. It's a semi-solid emulsion of oil and water, with options like oil-in-water or water-in-oil creams. Face cream can soften, cleanse, moisturize, and protect the skin, potentially reducing the appearance of wrinkles and improving complexion. Face creams are available for different skin types, including oily, dry, combination, and sensitive skin, with specific formulations .

#### Benefits of using a face cream include:

Preventing wrinkles by acting as a barrier and curbing inflammation.

- Keeping the skin soft.
- Hydrating the skin.
- Brightening the face and providing a healthy glow.
- Fighting acne and preventing breakouts.
- Serving as a good base for makeup.

#### Need Of Face Glowing Cream:

1) Face Glow Cream is used for the short-term treatment of mild to moderate melasma.

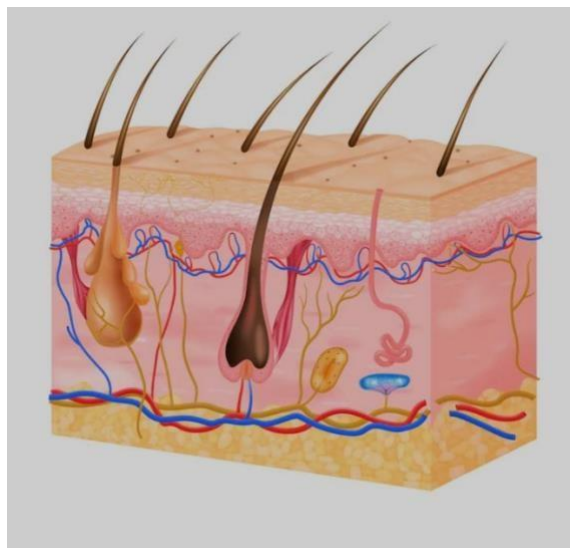
- It helps reduce scars, marks, blemishes, and dark circles under the eyes.
- It should always be used along with sun-avoidance measures, like using sunscreens and wearing protective clothing.
- Apply and massage gently till the cream is fully absorbed, once daily at night.

#### Key Features

- Contains vitamin C and niacinamide
- Provides even tone and skin brightening
- Has a smooth, lightweight texture
- Suitable for all skin types
- Paraben- and sulphate-free

#### Anatomy & Physiology of Human Skin:





### **Epidermis:**

#### **Outer layer:**

The epidermis, which is the outermost layer of skin, forms a protective barrier.

#### **Hydration:**

Face creams can help bind moisture in the epidermis, keeping the skin supple and preventing dryness.

#### **Barrier function:**

Some face creams contain ingredients that help strengthen the skin's natural barrier function, protecting against harmful substances.

#### **Sun protection:**

Some face creams contain sunscreen ingredients that help protect against UV damage.

### **Dermis:**

#### **Collagen and elastin:**

The dermis contains collagen and elastin, which provide skin elasticity and support.

### **Blood vessels:**

The dermis contains blood vessels that nourish the epidermis and regulate temperature.

### **Nerves:**

The dermis contains nerve endings that detect sensations like touch, temperature, and pain.

### **Oil and sweat glands:**

The dermis also contains sebaceous (oil) and sweat glands.

### **Drug profile:**

#### **1.Aloe vera gel**

**Common name:** Indian aloe

**Scientific name:** Aloe barbadensis

**Family:** liliaceae

**Genus:** Aloe

**Uses:** it is suitable for all skin types especially for acne and oily skin

**Soothing and calming**



glycerin is beneficial for the skin due to its multiple properties that enhance skin health and hydration. Here are some key points:

- **Moisturizing Effect:** Glycerin acts as a humectant, attracting moisture from the environment and retaining it in the skin, which helps in maintaining skin hydration. 1
- **Skin Barrier Function:** It helps in repairing and maintaining the skin barrier by preventing water loss and protecting against irritants. This is particularly beneficial for conditions like atopic dermatitis.

## 2.Tulsi

Common name: Tulsi

Scientific name: *Ocimum tenuiflorum*

Family: Lamiaceae

Genus: *Ocimum*

Uses: Tulsi leaves can be crushed and used as natural exfoliant

The mild abrasiveness helps remove dead skin cells, unclog pores, and reveal a fresh, rejuvenated complexion



## 3.Glycerin

## 4.Coconut oil

Common name: copra oil

Scientific name: *cocos nucifera*

Family: Arecaceae

Genus: *cocos*

Uses: moisture your skin

Relieve inflammation

Accelerate wound healing



## 5.Turmeric

Common name: Indian saffron

Scientific name: curcuma longa

Genus: Santalum

Family: Zingiberaaceae

Uses: Promote even skin tone

Genus: curcuma

Imparting a healthy glow

Uses: helps sooth irritated skin

Leaving your complexion looking more radiant and luminous

Address hyperpigmentation

Fight free radicle

Reduce appearance of dark spots

## 9.Rose water

### Key Benefits of Rose Water in Skincare:

#### Hydration:

Rose water helps to hydrate and nourish the skin, making it beneficial for dry or sensitive skin types.

#### Soothes Irritation and Redness:

Its anti-inflammatory properties can calm irritated skin, reduce redness, and alleviate the symptoms of conditions like eczema or rosacea.

#### Balances Skin Oils:

Rose water can help regulate skin's natural oils, which can be helpful for both dry and oily skin types.

## 6.Multani -Matti

Common name: Fuller's earth

Uses: Cleanse, exfoliate and control oil

Help remove dirt and impurities

## 7.Rice water

Helps reduce redness, itching, and swelling

## 8.Sandlewood

Common name: Chandan

Scientific name: Santalum album

Family: Santalaceous

## MATERIALS AND METHODS:

S. No	Ingredients	Quantity
1	Aloe vera gel	25g
2	Tulsi	10g
3	Glycerin	8g
4	Coconut oil	5ml
5	turmeric	10g
6	Multani Matti	25g
7	Rice water	5ml
8	Sandalwood	7g
9	Rose water	Q. S



**Preparation of face glowing cream:**

**Step 1:** weigh the all ingredients properly or accurate quantity. (Properly weight the all ingredients by using weighing balance)

**Step 2:** Glycerin add coconut oil mix oil properly with heating

**Step 3:** Add turmeric in water for collecting the extract

Collect the turmeric extract properly for formulation of cream

**Step 4:** Mix turmeric extract with add orange peel extract and add rice water and mix properly

**Step 5:** Tulsi, Sandalwood powder and multanimitti are mixed together properly.

**Step 6:** Add Aloe Vera gel and Rose water on the above mixture. Mix it properly until the proper cream formulation.

**Identification test**

**Irritancy test:** Mark an area on hands. Definite quantities of prepared face Cream were applied to the specified area and time was noted. Irritancy, Redness, Swelling was checked for regular intervals up to 24 hrs and reported. The Photo-irritation (Presence of sun) was checked regular interval of 15 min. Irritancy test performed by pH metre. The pH of formulation match with skin pH so, there will be no irritation occurs

**Stability studies:** The prepared formulation is required testing of stability by storing at different temperature conditions for the period of one month, temperature conditions like, room temperature and 40°C and were evaluated for physical parameters like odour, pH, consistency

**Wash ability :**Wash ability this is the common method for checking the wash ability of the formulation. The formulation were applied on the skin and then ease and extent of washing with water were checked manually by using 1 liter of water is used to remove all content of the formulation were applied on the surface.

**RESULT AND DISCUSSION:****Observation table:**

Parameter	observation
colour	Pale yellow
Odour	pleasant
appearance	Smooth fine
texture	fine
smoothness	smooth

**Preliminary study**

s.no	Evaluation test	F1	F2	F3	F4
1.	colour	brown	Light yellow	yellow	Pale yellow
2.	texture	Fine	Fine	Fine	Fine
3.	smoothness	smooth	smooth	Smooth	Smooth
4.	PH	6	7	6.5	6

**Identification test**

S. No	Physical Properties	Description
1	Physical state	Semi solid
2	colour	Pale yellow
3	Odour	pleasant
4	solubility	soluble

**CONCLUSION:** the current situation, individuals require cure for different skin issues without any side effect. ingredient so paved the way to create cosmetics without causing any ill effect. face glowing cream are viewed as sustains and fruitful means to improve the look of skin. Therefore, in the current research, it is a highly good effort to





prepare the face cream using naturally available ingredients such as multanimitti, turmeric, aloe Vera, sandalwood, Rose water. To remove wrinkles there are several herbal ingredients that can be play a vital role in skin care

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