

THE FORMULATION AND EVALUATION OF DEVELOPMENT & EFFICACY OF NATURAL HERBS BASED FACE PACK

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Abstract

The aim of the current study is to formulate and assess a natural herbal face pack that will improve skin texture, radiance, and offer a safe, chemical-free substitute for traditional cosmetics. The increasing demand for herbal skincare is driven by consumer preference for natural ingredients that offer minimal side effects and long-term skin benefits. The face pack was developed using a blend of scientifically backed herbal ingredients including orange peel powder, carrot powder, sandalwood, lemongrass, lentil, turmeric, and liquorice each selected for their specific dermatological properties such as exfoliation, anti-inflammatory action, antioxidant activity, oil control, and skin brightening.

The formulation was designed in cream form using aloe vera gel, rose water, and coconut oil as the base, which enhances hydration, consistency, and ease of application. Standard pharmaceutical techniques were employed to prepare the formulation, which was then subjected to various evaluation tests. Organoleptic analysis confirmed the product's acceptable appearance, texture, and fragrance. Physicochemical tests revealed a skin-friendly pH of 6.85 and good spreadability. Stability studies conducted under varying temperature and humidity conditions over 30 days indicated that the face pack remained stable in terms of colour, consistency, and pH. Additionally, washability tests demonstrated the ease of removal, and irritancy tests confirmed the absence of skin irritation, redness, or swelling, indicating its safety for topical use.

Overall, the developed herbal face pack was found to be effective in providing skin nourishment, improving blemishes, complexion, reducing acne and promoting a healthy glow. This study supports the viability of herbal face packs as a sustainable, non-toxic, and cost-effective skincare solution, encouraging a shift toward nature-based personal care products.

INTRODUCTION

People have known for ages that plants may be used to make skin healthier, more radiant, and more beautiful. Cosmetics are items used to maintain, enhance, and encourage a pleasing appearance. One of the main body parts that shows a person's health is their face's skin. In the past, women were quite self-conscious about how they looked and took extra care of their particular skin type. ^[1]

Aloe vera, orange peel, neem, tulsi (*Ocimum sanctum*), sandalwood, and other botanical extracts are still used today for their medicinal and cosmetic properties, particularly in rural and traditional societies. It is thought that these botanical components have anti-inflammatory, antibacterial, antioxidant, and skin-rejuvenating qualities. ^[2]

Particularly in isolated places, people continue to employ natural remedies like tulsi, orange peels, aloe vera, and plant extracts for cosmetic purposes. According to Ayurveda, poor diet and lifestyle choices produce skin-related disorders, and blood impurities are usually the source of skin problems. A herbal paste called "Mukha Lepa" is applied to the face to treat pigmentation, acne, and pimples. This herbal mixture is called "MukhaLepa" and is applied to the face. ^[3]

Face packs are semi-solid formulations—either in paste, cream, or gel form—that are put on the skin and allow to dry before removal. These preparations offer a range of benefits such as skin tightening, detoxification, oil control, and improved skin texture. Unlike regular skincare creams or lotions, face packs often contain additional active ingredients that penetrate deeply and act over a short duration. Individual skin types (oily, dry, combination, and sensitive) and specific problems like acne, wrinkles, dark circles, hyperpigmentation, and dullness frequently influence the kind of herbal face pack that is utilized. ^[4]

A face pack is a type of cream that is applied to the face. To provide the face a tightening effect, this preparation is applied as a liquid or paste and allowed to dry. In essence, face packs are supplements that provide extra advantages. Different skin types require different herbal face packs. Dark circles, acne, pimples, and wrinkles can all be lessened with a herbal face pack. enhance the skin's smoothness and fairness.^[5]

Benefits of herbal face pack

- The effectiveness of herbal face packs in reducing acne, pimples, and scars depends on their herbal composition.
- These face masks provide a relaxing and relaxing effect on skin.
- Herbal face packs nurture the skin.
- Usually, face packs exfoliate the dead cells on the skin.
- They help to rapidly restore the skin's lost luster and vitality.
- Natural face packs give the skin a youthful, healthy appearance.
- When worn regularly, natural face masks give the skin a glow and improve its texture and tone.
- These face pack provide soothing and relaxing effects on the skin.^[6]

Advantage of herbal face pack

- There are no side effects from herbal products.
- It helps get rid of dead cells in our skin.
- Products made from herbs are widely accessible.
- Herbal products are inexpensive.
- It is utilized to make our skin sparkle. ^[7]

Disadvantages of herbal face pack

- Our skin can occasionally show signs of redness and irritation.
- Inflammation occurred.
- The face pack's benefits will take time to manifest. [8]

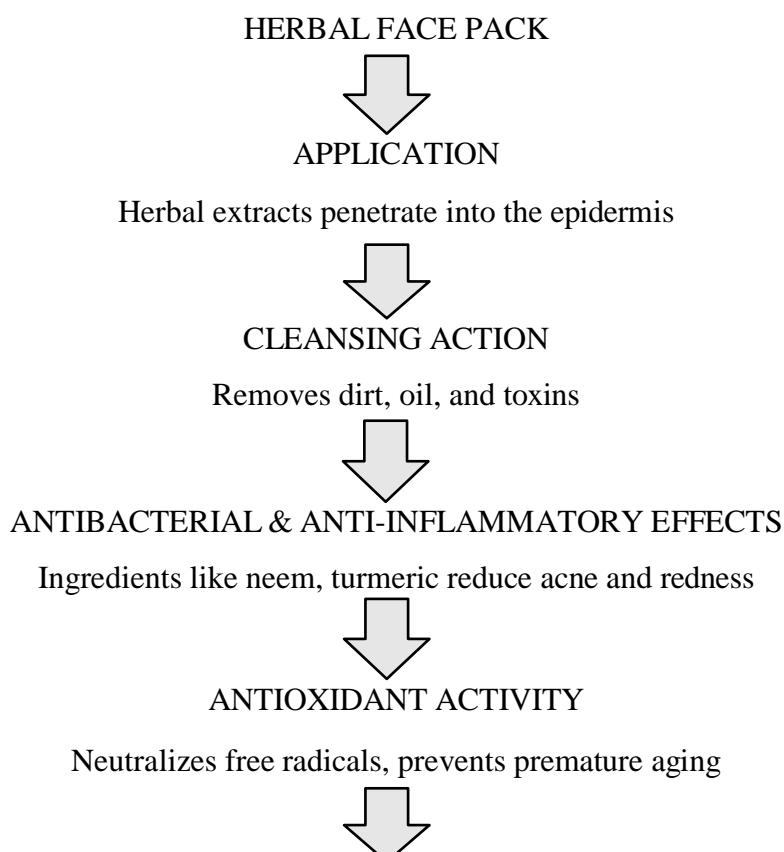
Precautions Should Be Taken While Applying Face Pack

- Prior to applying a face mask, consult a skin professional or natural therapist. Select a face mask according to your skin type.
- Leaving the face mask on for more than fifteen to twenty minutes is not advised. Extended use may result in wrinkles, sagging of the skin, and enlargement of open pores.
- Every seven days, apply a face mask. Do not try to scuff or remove the dehydrated face mask. The skin beneath could be harmed by this.
- Avoid placing your face mask in the "eye zone." The skin that surrounds the eye is quite delicate. The process of removing the face mask may cause injury to the skin surrounding the eyes. [9]

How to use

- Use a face pack powder according to the recipe.
- Create the paste by combining the finished herb mixture with water or rose water.
- Use pastes locally on the face.
- Use fresh water to wash your face. [10]

Mechanism of Herbal Face Pack



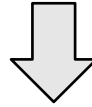
EXFOLIATION (IF APPLICABLE)

Natural scrubs remove dead skin cells



HYDRATION & NOURISHMENT

Aloe Vera, honey, etc. moisturizer



SKIN TIGHTENING & BRIGHTENING

Fuller's earth, sandalwood improve tone e texture



RINSE OFF

Smooth, glowing, and heiltier skin ^[11]

ANATOMY OF SKIN

General Introduction of Skin:

The biggest organ in the human body is the skin, which measures 2 meters in length and weighs 3.6 kg in adults. It protects the body from external stresses by acting as an insulating and waterproof barrier. Along with hormones, neuropeptides, and cytokines that have biological effects on the skin and throughout the body, it also produces antimicrobial peptides that aid in the prevention of infections. In addition to carrying out essential tasks like protection, temperature regulation, water and electrolyte preservation, and fat and water storage, it also plays a significant part in the endocrine and immunological systems and acts as a life-sustaining interface between the body and the outside world. The skin is composed of three layers, each of which serves a specific purpose. ^[12]

- Epidermis
- Dermis
- Hypodermis

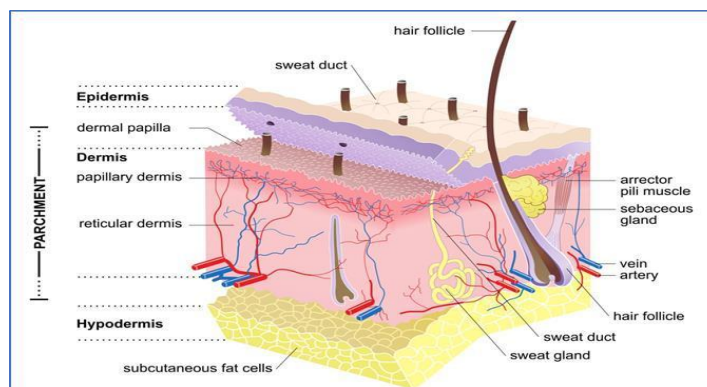


Fig no: 01 Structure of Skin. ^[27]

AIM & OBJECTIVE

Aim: - Preparation of Herbal Face Pack for Glowing Skin.

Objective :

Primary Objective

Preparing a Herbal Face Pack to Promote Glowing Skin

The central aim is to develop a face pack utilizing natural herbal ingredients to enhance skin health and appearance. These formulations typically include components like sandalwood, rose petals, turmeric, Multani mitti, neem and other plant-based powders. The goal is to create a product that is non-toxic, non-allergenic, and effective in promoting a radiant complexion.

Secondary Objectives

- 1. To promote chemical-free skincare:**
 - Emphasize the absence of parabens, sulfates, synthetic fragrances, and harmful chemicals.
- 2. To cater to sensitive skin types:**
 - Use soothing herbs like aloe vera, neem, turmeric, and sandalwood to reduce irritation.
- 3. To support sustainable and eco-friendly practices:**
 - Use biodegradable packaging and sustainably sourced ingredients.
- 4. To educate consumers on the benefits of herbal skincare:**
 - Raise awareness about the traditional and scientifically backed properties of herbs.
- 5. To provide a spa-like experience at home:**
 - Focus on fragrance, texture, and application process that enhances user satisfaction.
- 6. To offer a cost-effective skincare solution:**
 - Provide high-quality natural skincare at a competitive price point.

REVIEW OF LITERATURE

Chavan Ankita N. et. al. (2022) carried out a review that concentrated on the creation & assessment of a herbal face pack intended to improve blood flow, cleanse the skin by eliminating debris and pollutants, and improve skin health in general. The study's primary objective was to create a cosmetic face pack that would work for all skin types by combining natural ingredients in various ratios. In this study, ten different formulations were prepared using a variety of herbal components known for their skincare benefits. Key ingredients included Liquorice (known for its anti-inflammatory and skin-brightening properties), Multani Mitti (a natural clay that absorbs excess oil and cleanses the skin), Rose Powder (which soothes and refreshes the skin), and Rakta Chandan (Red Sandalwood, valued for its cooling and complexion-improving effects). The preparation process involved passing all the herbal ingredients through sieve no. 100 to achieve a fine and uniform particle size. In order to guarantee a uniform combination in every formulation, the sieved powders were thereafter combined geometrically. To evaluate these formulations' efficacy and quality, a number of experiments were conducted.

Saloni Jain et. al. (2022) carried out a study centered on the creation & assessment of a polyherbal face pack intended to enhance the smoothness and brightness of the skin. The primary objective of the project was to develop a cosmetic product using natural herbal ingredients that are safe, effective, and suitable for regular skincare. For this purpose, three key herbal ingredients were selected: Amla (*Embolica officinalis*), known for its rich vitamin C content and antioxidant properties; Masoor Dal (*Lens culinaris*), valued for its exfoliating and skin-brightening effects; and Rose Petals, which provide a soothing, anti-inflammatory, and fragrant component. After being meticulously cleaned, dried, and processed into fine powders, these ingredients were purchased from the neighbourhood market.






Priti R. Neware et. al. (2022) conducted a study with the goal of developing & evaluating a herbal face pack to treat two common skin conditions that affect people of all ages: acne and dull skin. With growing awareness of the side effects associated with chemical-based cosmetics, there has been a significant shift toward natural and herbal skincare solutions. This increasing demand for herbal formulations inspired the development of a face pack using readily available plant-based ingredients known for their therapeutic and cosmetic benefits. The study's main goal was to make a natural face pack with a range of herbs that have anti-inflammatory, anti-acne, exfoliating, and brightening qualities. Masoor dal, shalmali, turmeric, neem, orange peel, Multani mitti, and sandalwood are among the herbal constituents chosen for this composition.



Swati Siddheshwar et. al. (2020) conducted a study to create and evaluate a herbal face pack that results in glowing skin by using natural ingredients. The local market provided the herbal powders used to make the face pack, which included aloe vera, charcoal powder, saffron, turmeric, nutmeg, lemon peel powder, arjuna powder gram flour, and rice flour. These ingredients were chosen for their skin-beneficial properties like cleansing, brightening, detoxifying, and soothing effects. The formulation was assessed for texture, pH, spreadability, and overall effectiveness, showing positive results for enhancing skin appearance naturally.

Anilkumar V. et. al. (2020) conducted a review focusing on the formulation, development, and evaluation of a herbal face pack using various natural powders aimed at enhancing skin glow and overall skin health. The study's primary goal was to create a cosmetic product using natural, eco-friendly ingredients, aligning with the increasing global demand for sustainable and green beauty solutions. In the 21st century, the focus on developing eco-conscious products has become a key agenda among scientists and cosmetic formulators worldwide, largely due to rising consumer awareness about the harmful effects of synthetic chemicals. The study highlights the growing popularity of herbal cosmetics in both domestic and international markets, driven by consumer preferences for natural, safe, and side-effect-free skincare products. In order to ensure quality control and consistency throughout the formulation process, the research focused on making a herbal face pack in-house as part of this project.

Aninash O. Maske et.al. (2019) conducted a review focused on the formulation & evaluation of a herbal face pack aimed at enhancing skin glow and overall appearance using natural herbal ingredients. The study emphasizes the increasing preference for herbal and natural cosmetic products, especially in skincare, due to their safety, minimal side effects, and effectiveness derived from centuries of traditional use. This work's primary goal was to create a natural, reasonably priced, and potent face pack that will promote healthy, radiant skin. The researchers selected a combination of well-known herbal powders based on their traditional applications and scientifically supported skin benefits. The ingredients included in the formulation

LIST of INGREDIENTS

SR.N O	COMMON NAME	FIGURE	ACTIVE COMPOUND	USES
1	Orange Powder		Polyphenols	Brightening Skin, Reduce Acne & Wrinkle,
2	Carrot Powder		Ascorbic Acid	Nourishing Skin, Skin Texture
3	Lemongrass Powder		Citrol	Cleansing, Toning & Tightening Skin.
4	Sandalwood Powder		Alpha- santalol	Anti-inflammatory, Anti-tanning
5	Turmeric		Curcumin	Reduces Inflammation, Moisturizes Skin.

6	Lentil Powder		Saponins	Anti-aging, Oil Control.
7	Liquorice		Glycyrrhizin	Hyperpigmentation, Fading scar.

MATERIALS & METHOD

The study's crude drugs were purchased for the surrounding community. For future use, each ingredient was cleaned, shade-dried, and finely powdered. ingredients made from herbs.

a) Liquorice:



Fig. No1: Liquorice.^[34]

Scientific name: Glycyrrhiza glabra

Family: Leguminosae.

Uses:

Traditionally, liquorice has been used as an expectorant and demulcent. It is used in cough. Flavonoids used in peptic ulcer show antigastric activity. In cosmetic liquorice has many beneficial effect like anti-aging, UV protection, hypopigmentation, anti-wrinkle and many more.

Benefits of Liquorice for skin:

1. Liquorice contains glabridin, which helps to inhibit the enzyme that causes skin darkening.
2. The anti-inflammatory properties of liquorice soothe irritated skin, making it excellent for calming conditions like eczema.
3. Antioxidants found in liquorice help shield the skin from harm brought on by free radicals.
4. Liquorice can assist in repairing sun damage, especially pigmentation caused by sun exposure ^[13]

b) Turmeric:



Fig. No. 2: Turmeric.^[29]

Synonym: Curcuma longa

Family: Zingiberaceae

Chemical constituent: Volatile oil, Resinous matter, Starch, Curcuminoids.

Uses: Helps brighten dark spots, Helps heal skin wounds, Helps with some skin conditions.

It can help bring out your natural glow. By reducing dark spots and hyperpigmentation, your skin looks naturally even radiant.

Benefits of turmeric for skin:

1. Turmeric helps to reduce blemishes.
2. Turmeric lightens skin and is thus good for treating skin scars and dark spots.
3. Turmeric's curcumin can promote the creation of collagen, giving your skin a more youthful appearance.
4. Turmeric is known to reduce skin inflammation that causes acne. ^[14]

c) Lentil:



Fig. No. 3: Lentil.^[33]

Family: Fabaceae

Scientific name: Lens Culinaris

Uses: Lentil had greatest antioxidant capability Red lentil provide a variety of skin beneficial properties. To begin with it slows down the aging process. That because red lentils are high in antioxidant.

Benefits of Lentil for skin:

1. It fights acne and clear blackheads.
2. Improve skin texture and moisturizes.
3. It serves as an excellent natural exfoliator.
4. It lightens scars and dark spots. ^[15]

d) Orange Powder:



Fig. No. 4: Orange Powder.^[28]

Scientific name: Citrus sinensis

Family: Rutaceae

Uses:

- 1) Lighten and brighten skin.
- 2) Hydrates Dehydrates skin.
- 3) Promotes healthy skin glow.
- 4) Environmental stress
- 5) Natural exfoliation
- 6) Aromatherapeutic benefits

Benefits of orange powder for skin:

- 1) It fights acne and clear blackheds
- 2) Improve skin texture and moisturizes.
- 3) It serves as an excellent natural exfoliator.
- 4) It lightens scars and dark spots. ^[16]

e) Carrot Powder:



Fig.No.5: Carrot Powder.^[29]

Family: Apiaceae

Scientific Name: Daucus Carota

Uses:

- 1) Skin Brightening and Lightening
- 2) Fading Blemishes and Acne Scars
- 3) Soothing Sensitive Skin
- 4) Protect Against Sun Damage

Benefits of Carrot Powder For Skin:

1. Rich in Beta Carotene
2. Helps lighten pigmentation dark spots.
3. Helps balance oil production in oily and combination skin.
4. Support skin hydration while keeping it non greasy. ^[17]

f) Lemongrass Powder:



Fig. No. 6: Lemongrass Powder. ^[30]

Family: Poaceae

Scientific Name: Cymbopogon Flexuosus

Uses:

- 1) Reducing Oily Skin
- 2) Controlling acne
- 3) Improving skin texture
- 4) Soothing Inflammation and Irritation

Benefits of Lemongrass For Skin:

- 1) Reduce Pimples
- 2) Balance Skin Oil Production
- 3) It is Tightens pores
- 4) Hydration and Moisturizing Effect. ^[18]

g) Sandal Powder:



Fig. No. :7 Sandalwood Powder.^[31]

Family: Santalaceae

Scientific Name: Santalum album L

Uses:

- 1) Skin softening effect.
- 2) Anti-tanning property.
- 3) Pimple and acne treatment
- 4) Clear complexion.
- 5) Anti-aging property

Benefits of Sandalwood for Skin

- 1) Fade dark spot and Even out complexion
- 2) Reduce the effect of pollution
- 3) Improved Skin Texture
- 4) Smoothness Irritated Skin. ^[19]

Table no.01: Composition of herbal face pack cream

Composition of herbal face pack cream		
Sr.no.	Ingredients	Quantity
1.	Orange Peel Powder	2.5gm
2.	Carrot Powder	2.5 gm
3.	Lemongrass Powder	2 gm
4.	Sandalwood Powder	2 gm
5.	Lentil Powder	2.5 gm
6.	Liquorice powder	2 gm

7.	Turmeric Powder	0.5 gm
8.	Aloevera Gel	20 gm
9.	Rose Water	10 gm
10.	Coconut Oil	5 gm
11.	Preservative	0.25 gm

METHOD OF PREPARATION

Each of the herbal powders needed to make the face pack was carefully weighed separately using a digital balance. The components and quantity are listed in Table 1.



Using a mortar and pestle, the herbal remedies which included powdered carrots, orange peels, and lemongrass were prepared into a trituration.



Herbal remedies such as liquorice were triturated in a separate mortar and pestle to create a uniform, fine mixture.



The powders were run through the appropriate #80 sieve.



A previously prepared mixture of herbal powders was added to a mixture of fine powders and triturate to create a consistent medication for face pack cream.



An airtight container held the prepared face pack cream. ^[20]

Evaluation Test for Herbal Face pack Cream

A) Organoleptic Evaluation:

The examination of the herbal face pack using factors including colour, odour, texture, etc. It includes test like;

- a) Colour
- b) Odour
- c) Texture
- d) Appearance
- e) Smoothness [21]

B) Physiochemical Evaluation of Prepared Herbal Face Pack Cream:

a) pH test Take: 1 gram of the herbal face pack. Add 100 mL of distilled water to the sample. Stir the mixture thoroughly until a smooth, uniform suspension or emulsion forms. Calibrate with standard buffer solutions (pH 4.0, 7.0, 10.0) as per standard operating procedure. Rinse the pH electrode with distilled water. Dip it into the prepared sample. Wait for the reading to stabilize. Record the pH value. Rinse and store the electrode properly after use. [22]

b) Stability Studies: Fill 5 grams of the herbal face pack into clean, labeled glass vials. Prepare triplicates for each storage condition. Store vials at Room Temperature ($25 \pm 2^\circ\text{C}$) 60% RH (Relative Humidity) Elevated Temperature ($40 \pm 2^\circ\text{C}$, 75% RH They test for 1 month, checking on 0Day, 7Day 15Day 30 Day they check Color, Odour, pH, Consistency. Note changes at each time point for each condition. [23]

c) Spreadability Test: The 1-gram formulation should be placed on a butter paper, and then a watch glass should be placed on top. After two minutes of being compressed to a constant thickness with a five-gram weight on a watch glass, the sample's diameter was measured. [24]

d) Washability Test: Select a clean, dry, and hairless area on the forearm or back of the hand of the volunteer/test subject. Make sure skin is free of cream or other products. Apply a fixed amount of the herbal face pack cream (e.g., 1 gram) evenly on the test area. Allow the cream to sit for a specified time (e.g., 10 minutes) to simulate typical usage. Using room temperature water and cotton pads or a soft cloth, gently attempt to wash off the cream. Record the time taken (using stopwatch) for the cream to be completely removed. [25]

e) Irritancy Test: Mark an area (1sq.cm) on the left-hand dorsal surface Definite quantities of prepared face packs were applied to the specified area and time was noted. Irritancy, edema, was checked if any for regular intervals up to 24hrs and reported. [26]

RESULT AND DISCUSSION

A) Organoleptic evaluation:

Herbal face pack was evaluated for Organoleptic parameters showed in the Table no The colour of formulation was Yellowish Green. The odour of prepared formulations was pleasant and good acceptable which is desirable to cosmetic formulations. Texture and smoothness was acceptable as per requirement of cosmetic formulations.

Table No :02 Organoleptic Evaluation of Prepared herbal Face pack

Sr. no.	Parameter	Observation
1	Colour	Yellowish Green
2	Odour	Slight
3	Texture	Fine
4	Appearance	Fine
5	Smoothness	Smooth
6	Nature of Face pack Cream after wash	Soft & Fresh, Clean form Dirt

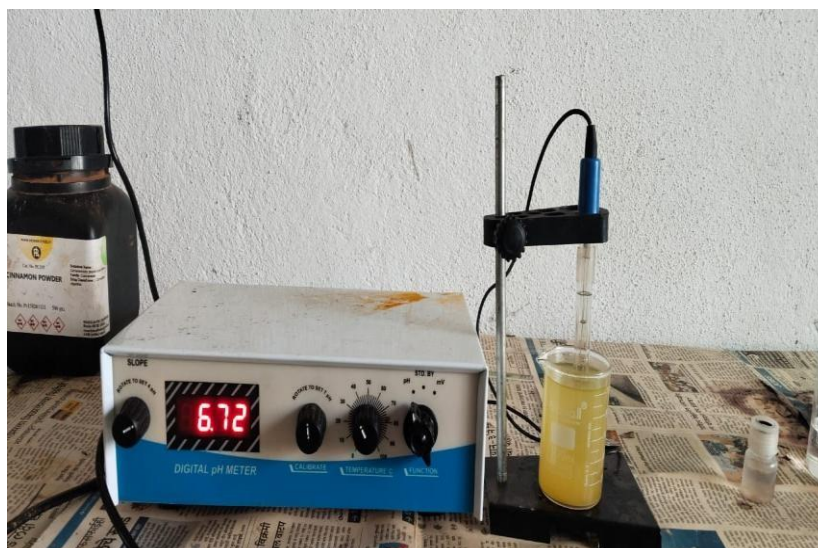
B) Physiochemical Evaluation of Prepared Herbal Face Pack Cream:

a) pH Test:

Table No. 03 displayed the pH test findings. Neutral pH tests revealed the presence of pH factors in the formulation. It is safe to apply this formulation to the skin.

Table No. 03: pH Test Evaluation of Prepared herbal Face pack

Sr. No	Parameter	Observation
01	pH Parameter	6.72



b) Studies of Stability: Table No. 04 displayed the stability study's findings. The temperature is $25 \pm 2^\circ\text{C}$. Temperature Increase ($40 \pm 2^\circ\text{C}$). They test for 1 month, checking on 0Day, 7Day 15Day, 30 Day they check Colour, Odour, pH, Consistency.

**Table No.04: Stability Studies Test Evaluation of Prepared herbal Face pack
Temperature ($25 \pm 2^\circ\text{C}$, 60% RH)**

Time Point	Day 0	Day 7	Day	30 Day
Colour	Yellowish Green	Yellowish Green	Yellowish Green	Yellowish Green
Odour	Slight	Slightly	Slight	Slight
pH	6.8	6.4	6.2	6.0
Consistency	Smooth	Smooth	Smooth	Smooth

Temperature ($40 \pm 2^\circ\text{C}$, 75% RH)

Time Point	Day 0	Day 7	Day	30 Day
Colour	Yellowish Green	Yellowish Green	Yellowish Green	Yellowish Green
Odour	Slight	unpleasant	Slight	Slight
pH	6.8	6.1	5.9	5.7
Consistency	Smooth	fine	Smooth	Smooth

c) Spreadability Test:

After putting the 1 gram formulation on a butter paper, place a watch glass on top of it. After two minutes of applying a 5 g weight to the watch glass, the sample was compressed to a uniform thickness, and its diameter was measured.

Table No.05: Spreadability Test Evaluation of Prepared herbal Face pack

Sr. No	Parameter	Observation
01	Spreadability Test	3.1 cm



d) Washability Test: Select a clean, dry, and hairless area on the forearm or back of the hand of the volunteer/test subject. Make sure skin is free of cream or other products. Apply a fixed amount of the herbal face pack cream (e.g., 1 gram) evenly on the test area. Allow the cream to sit for a specified time (e.g., 10 minutes) to simulate typical usage. Using room temperature water and cotton pads or a soft cloth, gently attempt to wash off the cream. Record the time taken (using stopwatch) for the cream to be completely removed.

Table No 06: Evaluation of Prepared herbal Face pack

Sr. No	Parameter	Observation
01	Washability Test	Good

e) Irritancy Test:

The results of the irritancy test were displayed in Table 7. The formulation showed no symptoms of edema, redness, or irritation during irritancy testing. Applying this formulation to the skin is safe.

Table No.07: Irritancy Test Evaluation of Prepared herbal Face pack

Sr. No	Parameter	Observation
01	Irritation	Not irritation observed
02	Redness	Not redness observed
03	Swelling	Not swelling observed

CONCLUSION

In recent years, the demand for herbal and plant-based healthcare and cosmetic products has significantly increased. This trend is largely driven by growing awareness of the harmful effects associated with synthetic chemicals commonly found in conventional skincare, such as irritation, allergies, and long-term toxicity. Consumers are now turning toward natural, safer alternatives that are gentle on the skin and environmentally friendly.

Traditional medicine systems like Ayurveda have also influenced this shift, with many people favoring time-tested herbal ingredients. Additionally, the rise of clean beauty, increasing regulatory scrutiny, and scientific validation of herbal actives have further boosted consumer confidence in natural products. Social media and wellness influencers continue to promote herbal skincare, reinforcing its popularity.

This study's primary goal was to create a herbal face pack that was both stable and effective without the use of artificial chemicals. Conventional cosmetic formulations often contain artificial preservatives, fragrances, and other chemicals that may cause skin irritation or long-term side effects. In this study, these synthetic components were replaced with natural ingredients such as orange peel powder, turmeric, aloe vera gel, and rose water—each chosen for its skin-benefiting properties. The goal was to create a safe, natural alternative that delivers visible skincare benefits while meeting the growing demand for clean and plant-based beauty products.

The formulated herbal face pack cream, made with natural ingredients such as turmeric, orange peel powder, carrot, lemongrass, lentil powder, liquorice, aloe vera gel, rose water, sandalwood and coconut oil offers notable cosmetic and dermatological benefits. Each ingredient plays a complementary role—ranging from exfoliation, hydration, and oil control to soothing inflammation and brightening the skin. Together, they enhance skin texture, radiance, and overall health, making the formulation an effective, safe and natural alternative to synthetic skincare products.

The combined effect of these herbal ingredients results in a safe, non-toxic, and effective skincare formulation ideal for regular use. Rich in natural antioxidants, vitamins, and moisturizing compounds, the face pack cream works to enhance skin radiance by reducing dullness and promoting a healthy glow. It improves hydration by locking in moisture, helping to prevent dryness and roughness. The natural anti-inflammatory and exfoliating properties aid in refining skin texture, minimizing pores, and promoting smoothness. Additionally, the cream supports skin clarity by reducing blemishes and uneven pigmentation, contributing to a more even complexion.

Regular application can help in reducing signs of dullness, minor acne, and uneven skin tone, promoting a natural, healthy glow.

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