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**Research Article** 



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# **AROMA THERAPY DE-TAN REMOVAL PACK FOR GLOW, LIGHTING OIL CONTROL, ANTI-ACNE AND PIMPLES BLEMISHES PIGMENTATION DE-TAN PACK FOR FACE AND BODY WITH NO AMMONIA AND BLEACH**

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# Abstract

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## **INTRODUCTION**

Published by RJMS Cosmetics are commercially accessible products used to improve the appearance of the skin through the actions of washing, beautifying, and boosting attractiveness. [1] Herbs have been utilised for cleansing, beautification, and management since ancient times. The skin of the face is an important aspect of the body that reveals an individual's health [2]. It is made up of components such as amino acids, lipids, and carbs, among others, thus a well-balanced diet is required to keep the skin clear, shiny, and healthy.[3] The herbal paste is known as "Mukha Lepa" in Ayurveda and is used as a face therapeutic. This herbal paste is used to treat acne, pimples, scars, markings, and pigmentation on the face. [4] Face pack is a smooth

powder that is used for applying to the face. These preparations are applied to the face as liquids or pastes and allowed to dry and set to form a film that tightens, strengthens, and cleanses the skin.[5] They are often kept on the skin for ten to twenty-five minutes to let all of the water to drain, resulting in a contact and hardening layer that is easily removed. The use of a face pack gives a stimulating sensation of a revitalised face, while the colloidal and adsorption clays used in these preparations remove dirt and grease from the skin of the face. When the applied face pack is removed, skin debris and

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The goal of this project is to create and test a herbal face pack for glowing skin utilising natural herbal components. Natural herbal elements such as multani mitti, turmeric, sandalwood, milk powder, rice flour, and orange peel were obtained as dried powder from a local market. All powdered natural ingredients were sieved using #120 mesh, weighed accurately, and mixed geometrically for uniform formulation before being evaluated for parameters such as morphological, physicochemical, physical, phytochemical, irritancy, and stability. As a result, in this work, we created a herbal face pack that can be quickly manufactured with readily available ingredients. After testing, we discovered that the face packs had good qualities, were free of skin irritation, and retained their consistency even after being stored in stable settings. The study's findings scientifically proved that herbal face packs have the capacity to provide an effective glowing effect on skin. The entire study is useful for substantiating product claims due to its beneficial effects on humans.

Key Words: Skin, Herbal face pack, Formulation, Evaluation.

accumulated dirt are also eliminated. Face packs are supplements that provide some additional benefits. Herbal face packs are utilised for a variety of skin types. Herbal face packs can aid in the reduction of wrinkles, pimples, acne, and dark circles. Improve skin's fairness and smoothness as well. It can also help someone gain confidence. Ayurveda is the most effective and efficient method for accomplishing this goal [6]. Using Ayurvedic face treatments, which make the skin glow, is the best Ayurvedic way for enhancing fairness. Face packs can be used to treat, promote, and prevent skin problems. A face pack is a powder that is applied to the face. A good herbal face pack should nourish the skin while also reaching subcutaneous regions to supply active herbs and vitamins. Different skin types necessitate different herbal face packs. Ayurvedic face packs are used to reduce the appearance of wrinkles, zits, acne, and dark circles. The basic face packs provide "one vital vitamin that is required for the health and radiance of our skin." These items are also beneficial to our skin in a variety of ways. Natural Facial Packs are less complicated and easier to apply. They aid in the care of the skin and demonstrate its worth by improving blood circulation within the veins. Several types of packs are now available separately for oily, normal, and dry skin. Face Packs are used to improve the skin's equity and smoothness. It results in white heads, wrinkles, pimples, acne, and dark circles under the eyes. Face packs that are advised for oily skin that is prone to acne and blackheads usually monitor the pace of sebum release from the sebaceous glands and fight against the dangerous bacteria that is present inside the acne lesion. Skin blemishes can be removed by incorporating delicate powders such as Multani Miti, camphor, kaolin, and so on. They are non-toxic, non-allergic, and do not establish habits. They are natural in every way and have a longer shelf life. They contain no preservatives. They are simple to prepare and keep for a longer period of time.

## Benefits of herbal DE- TAN face pack

- Herbal face packs give skin nutrition.
- Depending on their herbal contents, herbal face packs can diminish acne, pimples, scarsand blemishes.
- ♦ Face packs typically exfoliate the skin's dead cells
- These face masks supply a calming and unwinding impact on the skin.
- They aid in quickly restoring the skin's lost radiance and glow.
- They help to prevent premature aging of skin.
- ♦ Natural face packs give the skin a youthful, healthy appearance.
- ✤ It keeps the skin's suppleness.
- Natural face masks improve the texture and tone of the skin and give it a glow when usedoften.
- The negative impacts of pollution and extreme weather can be successfully combated by using face packs sensibly.[8]

#### Advantage of herbal face pack

- Herbal products do not have negative side effects.
- ♦ It aids in ending our skin's dead cells.
- ✤ Herbal products are inexpensive.
- Products made from herbs are widely accessible.
- ✤ It is used to make our skin sparkle.

#### Disadvantage of herbal face pack

- Sometimes our skin displays signs of irritability and redness.
- ✤ Inflammation has taken place.
- ✤ The effects of the face pack will develop gradually.

These packs are available in several types and forms and broadly classified into the following categories: [7]

- 1. Plastic masks: Wax based, latex based, or vinyl based
- 2. Hydrocolloid masks: Gel masks (ready to use)

3. Argillaceous masks: Clay based, or earth based (ready to useor dry powder).

Present research article deals with the formulation and evaluation of cosmetic DE-TAN herbal face pack for glowing skin at home by using natural materials i.e., multimammate, aqua, clove oil, citrus oil, camphor, stearic acid, kaolin, eucalyptus, and acetyl alcohol.

## MATERIALS AND METHODS

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All the natural materials used in the present study i.e., Multani Miti, clove oil, citrus oil, camphor, stearic acid,kaolin, eucalyptus, acetyl alcohol was bought from the local market in the form of dried powder. Some of thenatural ingredients were selected based on the earlier literature review available. They were taken in the proposed amounts, as mentioned in individual components were taken in the purified form and weighed accurately. All the ingredients were combined evenly with the help of a mortar and pestle.

The details of the plant material used for the formulation of face pack are mentioned below;

#### Multani Matti (Calcium bentonite)

Multani Matti helps skin by diverse ways like diminishing pore sizes, removing blackheads and whiteheads fading freckles, soothing sunburns, cleansing skin, improving blood Circulation. Complexation, reducing acneand blemishes and gives a glowing effect to healthy nutrients.

Multani Matti is rich in magnesium chloride. They also give the skin a glowing appearance because they are rich in healthy nutrients. Acne may be lessened by the astringent and adsorbent qualities of Multani Matti. It might carry out this by reducing inflammation and soaking up extra sebum and oil in the afflicted areas. In general, Multani Matti is regarded as secure. However, it could result in a little skin irritation. This clay, whichhas a variety of minerals, is often used in cosmetics and personal care items. However, it could have negativeconsequences if you are allergic to fuller's



earth. Additionally, if it gets in your eyes, it might irritate them. Multani Matti is now produced synthetically and is classified as sedimentary clay. It is primarily made of silica, iron oxides, lime, magnesia, and water, in varying amounts. common natural skincare item that is present in every Indian home is Multani Matti. Multani Matti has been introduced into India for many years; Multan, in Pakistan, is where it is said to have originated. Although it looks like clay, it is kinder to the skin. It appears in a variety of colors, including brown and green, and is rich in minerals and water. It has no taste or smell. This clay is referred to in English as "Fuller' Earths.



#### Aqua

Aqua is a universal solvent in cosmetics and can be combined with thick ingredients like oils and butters to form creams. That is free of toxins, pollutants and microbes and is used in the formulation of cosmetics and personal care products.



#### Clove oil

Clove oil has a compound called eugenol that helps in treating acne. It fights the acne bacteria and helps in reducing swelling and redness, has a strong aroma and can be irritating for people with sensitive skin.

#### **Citrus oil**

Citrus essential oils are both uplifting and vibrant and can be used for many different aliments nicknamed the "happy oils" citrus essential oils add a variety of therapeutic properties to an aromatherapy blend, Add in their familiar citrus aroma, and skin care, anxiety, stress, and depression. It may be photo sensitive.



#### Camphor

Camphor bark oil is the volatile oil expressed from the bark of the camphor, Cinnamomum camphor a(L.)Lauraceous. It masks, skin conditioning and tonic.



#### **Stearic Acid**

A common multi-tasker fatty acid. It makes your skin feel nice and smooth (emollients), gives body to creamtype products and helps to stabilize water and oil mixes (aka-Emulsions).



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#### **Eucalyptus**

The essential oil created by steam distilling the leaves of the eucalyptus tree. It is a colorless, pale-yellow oilwith a camphoraceous aroma used traditionally in vapor rubs to treat coughs. Its name giving main components is eucalyptol (also called 1,8-cineole,80-91%) that has significant antibacterial and expectorant properties. It consists of non-sensitizing with an EU sensitizer total of 5% due to limonene).



#### Acetyl alcohol

A so called fatty (the good, non-drying kind of) alcohol that does all kinds of things in a skincare product. It makes your skin feel smooth and nice (emollients), helps to thicken up products and helps water and oil to blend (emulsifier). It can be derived from coconut or palm kernel oil.



#### Kaolin

Kaolin helps to cleanse and exfoliate dead skin cells and debris from the surface. Usually found in thickskincare products.

#### **Methods of Preparation**



Four different formulations were prepared with varying concentrations of all ingredients named as F1 to F4. The concentration of each ingredient was mentioned in Table 1. The exact quantity ingredients were weighed and ground into fine powder by using sieve #120. Then all ingredients were mixed geometrically by serial dilution method for uniform mixing. Mix well and apply over the facial skin. Cover the acne and blemishes spots too. Keep as it is for complete drying for 20 to 25 min and then wash with a concentration.

## **Methods of Evaluation**

Following evaluation parameters were performed to ensure superiority of prepared DE –TAN Herbal facepack; **Organoleptic Evaluation** 

The organoleptic parameters include its nature, color, odor, feel and consistency which were evaluated manually for its physical properties.8

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## **Table 2: Organoleptic properties**

SN	PARAMETERS	OBSERVATIONS
1	Appearance	Powder
2	Color	Slight yellow
3	Odor	Slight
4	Texture	Fine
5	Smoothness	Smooth

#### **Physical Evaluation**

The particle size was tested by microscopy method. The flow property of the dried powder of combined formwas evaluated by performing Angle of Repose by funnel method, bulk density and tapped density by TappingMethod.9

#### **Physicochemical Evaluation**

Ash content was performed using incinerator, pH was found by using pH meter and loss on drying was also performed.<sup>7</sup>

#### **Irritancy test**

<sup>i</sup>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 were noted. Irritancy, erythema, edema, was checked if any for regular intervalsup to 24 hrs. and reported.10

#### **Stability studies**

Stability testing of prepared formulation was conducted for formulation F2 by storing at different temperatureconditions for the period of one month. The packed glass vials of formulation stored at different temperatureconditions viz.., Room temperature, 35°C and 40°C and were evaluated for physical parameters like Color, Odor, pH, Consistency and feel.11

#### Parameters of stability studies of formulation

Sr.no	Parameters	Room temperature.
1	Color	No change
2	Odor	No change
3	Ph	6.65 + 0.17
4	Texture, Smoothness	Fine, Smooth

#### **Particle size**

The particle size of the face powder was figured out by optical microscopy method.

## Angle of Repose

The angle of repose was found by the fix funnel method.

#### Irritancy test

Face pack was applied on the skin and effects were seen after 15 min.

# Irritancy test results

Sr.no	Parameters	Observations
1	Irritant	No irritation
2	Erythema	No irritation
3	Edema	No irritation

#### Formulation of DE –TAN Pack:

Sr. no.	Name of Ingredients	Quantity of sample for 100 gm
1	Multani Matti	35
2	Clove Oil	5
3	Citrus Oil	4
4	Camphor	40

5	Stearic Acid	5
6	Kaolin	15
7	Eucalyptus	3
8	Cetyl Alcohol	3
9	Aqua	Q.S

## **RESULT AND DISCUSSION**

The Formulation F2 was found to be good in physical parameters, free from skin irritation and kept its consistency even after stressed storage conditions. It is suggested that the prepared formulation was physic chemically and microbiologically stable and had characteristics of a standard cosmeceutical formulation for skincare.

## CONCLUSION

In the present scenario, people need cure for various skin problems without side effects. Herbal ingredients opened the way to formulate cosmetics without any harmful effect. Herbal face packs are considered a sustaining and productive way to advance the appearance of skin. Thus, in the present work, it is a particularlygood attempt to formulate the herbal face pack having naturally available ingredients like Multani Miti, aqua, stearic acid, camphor, clove oil, citrus oil, eucalyptus, kaolin, acetyl alcohol. It is suggested that the preparedformulation was physiochemically and microbiologically stable and had characteristics of a standard cosmeceutical formulation for skincare.

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