

# Formulation and Evaluation of Herbal Face Pack from Moringa Olifera

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## ABSTRACT:

In this project work discuss about moringa leaves face pack .it is also known as” Drumstick tree ‘or’ Horseradish tree”. It approximately 5-10m height. This is incredible miracles tree could help to Cure 300 diseases, including osteoporosis and high blood pressure. Moringa also contains calcium and phosphorus which help to keep bones healthy and strong. It demonstrated as antidiabetic and anti-lipidemic activities. moringa is multipurpose medicinal plant used as human food and medicinal purpose.it is herbal plant and used as a antioxidant, antibiotics. moringa all part used as a nutrition. Moringa contain a 92 alcohol, fats, amino acid, ketones and acids. It also contains 18 amino acids, 36 anti-inflammatory, 46 antioxidants and 9 essential amino acids. Moringa also used to treat both Type 1 and Type 2 diabetes which help in nourishing moisturizing conditioning our skin along with providing vitamins and antioxidants rich properties. The facts about moringa is also one of kind as its leaves are rich in essential amino acids which plants . it is rich in protein and is a source of good cholesterol.

**Keywords;** Herbal face pack, Skin, Antibacterial, Antioxidant.

## I. INTRODUCTION:

Shajna is the native name of Moringa oleifera. "Sigru" is the Sanskrit word known as for Moringa oleifera. it is original from the Indian subcontinent, this plant has spread throughout tropical and subtropical region Moringa belonging from thirteen species, ranging in size from short trees to lush bushes. The tree is between 7 and 10meters tall numerous names for the plant exist involves drum stick tree and Miracle Tree.



Moringa oleifera

SCIENTIFIC Kingdom	CLASIFICATIONPlantae
Clade	Angiosperm
Order	Brassicales
Family	Moringaceae
Species	Moringaoleifera
Binomial name	Moringa oleiferaLam
Synonym	● Guilandina moringa L. ● Hyperanthera moringa (L.) Vahl

Its high vitamin B concentration facilitates effective and seamless digestion. With an annual yield of 1.2 million tonnes of fruits from an area of 380 km, India is the world's greatest producer of moringa. The World Vegetable facility, a facility for vegetable research in Taiwan, also actively conducts research on moringa. It can be multiplied via cuttings or seeds. It can be applied to skin beauty as well. It has characteristic black heads, dark patches, pimples, and blemishes ar

all effectively removed by moringa. On occasion, it is applied directly to the skin. Moringa has vitamin A and vitamin C are only two of the numerous nutrients found in moringa that are good for your skin. As previously said, when applied topically, moringa or umsticks may help enhance your avoiding blemishes and give tone.

It reveals the natural feature known as the tree of life. It cures the skin infection and sore. Moringa is also used daily to treat several diseases, including cancer, constipation, and seizures. It is recommended to restrict the daily dosage to 70 grams of moringa leaves. The antinutrients in moringa are harmful to you. Moringa has been shown to help prevent, lessen weight gain, increase energy, and lessen weariness. It has minerals, vitamins, and protein. It has an intense flavour and a hint of bitterne


ss, and it contains several beneficial compounds, including potassium.

**Materials, method and these properties:**

Present research article deals with the formulation and evaluation of herbal face pack for radiant skin that uses natural ingredients including Moringa oleifera leaves as a main ingredient and multani mitti, turmeric, curry leaves, sandalwood, red lentils. They were purchased from local market in the form of dried powder. Moringa oleifera leaves powder and curry leaves powder was made commercially by shade drying. All ingredients authenticated at Botany department of D.B.F. Dayanand College, Solapur. The detailed information about the natural ingredients used in the herbal face pack formulation are mentioned below.

**Ingredients of Formulation:**

Sr. No.	Common Name	Biological Name	Part Used	Figure
1	Drumstick	Moringa oleifera	Leaves	
2	Turmeric	Curcuma longa	Rhizome	
3	Multani-mitti	Fueller's earth	Clay	
4	Safed Chandan	Santalum album	Wood	
5	Curry leaves	Murraya koenigii	Leaves	

6	Red lentils	Lens culinaris	Seeds	
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**Table no 1: Ingredients of Formulation:**

**1.Moringa leaves:**

**Synonym:** Drumstick

**Family:** Moringaceae

Moringa oleifera has many nutrients which are healthy for your skin including vitamin A, which builds collagen the vital component that your skin is made of. It has vitamin C that helps to fight the signs of ageing. Moreover, moringa has vitamin E that has anti-inflammatory properties and also antioxidants in moringa help your skin from the sun’s damaging UV rays. Additionally, it has the ability to remove blackheads, pimples and clear skin.



Fig; Moringa oleifera

**2.Turmeric:**

**Synonym:** Curcuma longa

**Family:** Zingiberaceae

Curcuma has an excellent anti-allergic, antiseptic and anti-inflammatory properties. Turmeric treats dull skin, uneven skin tone and pigmentation and it delays the signs of aging like wrinkles, improves skin elasticity.



Fig; Turmeric

**3. Multani mitti:**

**Synonym:** Bleaching clay

**Family:** Euphoribaceae

Multani mitti is used as a natural cleanser and as a astringent. It helps a skin in various ways like removing blackheads, impurities, dead skin cells and reduce acne and gives smoothing and glowing effects to a skin as it contains healthy nutrients.



Fig; Multani-mitti

**4. Sandalwood:**

**Synonym:** Chandan

**Family:** Santalaceae

Red lentils are one of the greatest natural exfoliators because of their nutrients, which helps in removing dead skin cells and make the skin clean and smooth. It also remove the blackheads and acne.

Sandalwood possesses anti-aging and anti-tanning qualities. Additionally, it has numerous benefits for skin including toning, emollient, antibacterial properties, cooling astringent and smoothing quality.



Fig; Sandalwood



Fig; Red lentils

#### 5. Curry leaves:

**Synonym:** Mitta neem

**Family:** Rutaceae

*Murraya koenigii* possesses anti-inflammatory and antioxidant properties. It is effective for skin protection, skin glowing and helps in moisturising a skin.



Fig; Curry leaves

#### 6. Red lentils:

**Synonym:** Masoor DaI

**Family:** Fabaceae

Red lentils are one of the greatest natural exfoliators because of their nutrients, which helps in removing dead skin cells and make the skin clean and smooth. It also remove the blackheads and acne.

#### Moringa leaves powder preparation:



#### Method of preparation:

For the formulation of herbal face pack ingredients given as:

Take all ingredients powder like moringa leaves, multani-mitti, turmeric, curry leaves, sandalwood, red lentils as per requirement and mixed them. The accurate quantity ingredients were weighed and ground into fine powder by using sieve \*120 then mixed the powder. Then all the ingredients were mixed geometrically by serial dilution method for uniform mixing. Then was collected into container, labelled and used for further studies.

#### Procedure of face pack application:

Take prepared face pack powder in a bowl



Face pack cover the acne & blemishes spots  
 Then face pack apply over the facial skin & kept as  
 it is.

Wash the face with water when the applied face  
 pack is dried.



Fig; Prepared Face Pack

**Evaluation:**

**Organoleptic Evaluation:**

Sensory parameters include its nature, color odor, feel and texture, which were manually evaluated based on its physical characteristics.

**Physicochemical Evaluation:**

Physico-chemical parameters were determined e.g. determination of extractive value, ash value, moisture content and pH.

**Physical Evaluation:**

Particle size was tested using a microscope. The flowability of the combined powder was evaluated by determining the reaction angle by the funnel method, the bulk density by the tapping method.

**Irritancy Method:**

Mark the area [1 square meter cm] when determining the back surface of the left hand, a prepared amount of face pack was applied to the designated area, and irritation, redness, swelling were observed over time, which were checked at regular intervals. up to 24 hours and notified.

**Stability Studies:**

The stability test of the prepared preparation was performed by storing the preparation in different temperature conditions for 1 month. Packaged glass bottles for formulations stored at different temperatures of 35 degrees and 45 degrees and evaluated for physical parameters such as color, smell, pH consistency and feel.

**II. RESULT:**

Following evaluation parameters were performed to ensure of prepared face pack.

• **Morphological Evaluation**

Sr.no.	Parameter	Observation 1	Observation 2	Observation3
1.	Colour	Greenish yellow	Slight yellow	Greenish yellow
2.	Odour	Slight	Slight	Slight
3.	Appearance	Free flowing	Free flowing	Free flowing
4.	Texture	Fine	Fine	Fine
5.	Smoothness	Smooth	Smooth	Smooth

Morphological Evaluation:(Table no. 2 )

• **Physicochemical Evaluation**

Sr.no.	Parameter	Observation 1	Observation 2	Observation 3
1.	pH	Neutral	Neutral	Neutral
2.	Moisture content	0.3	0.25	0.15
3.	Ash content	0.4	0.27	0.12

**Physicochemical Evaluation :(Table no. 3 )**

• **Physical Evaluation**

Sr .no.	Parameter	Observation 1	Observation 2	Observation 3
1.	Tapped density	0.666gm/ml	0.71gm/ml	0.71gm/ml
2.	Bulk density	0.416gm/ml	0.5gm/ml	0.41gm/ml
3.	Angle of repose	33.020°	32.005°	31.38%
4.	Hausner's ratio	1.60	1.42	1.73
5.	Carr's index	37.87%	29.57%	42.25%

**Physical Evaluation:(Table no. 4 )**

• **Irritancy Test**



**Fig: Irritancy Test**

Sr.no.	Parameter	Observation 1	Observation 2	Observation 3
1.	Irritation	No	No	No
2.	Redness	No	No	No
3.	Swelling	No	No	No

• **Irritancy Test: ( Table no. 5 )**

**Stability Test**

Sr.no.	Parameter	Observation 1	Observation 2	Observation 3
1.	Colour	No change	No change	No change
2.	Odour	No change	No change	No change
3.	pH	No change	No change	No change
4.	Texture	No change	No change	No change

**Stability Test:(Table no. 6 )**

**III. CONCLUSION**

Natural medicines are more acceptable if they believe they are safer and have fewer side effects. The demand for herbal preparations is growing on the world market. In the current situation, people need treatment for various skin problems without any side effects. Herbal ingredients have opened up the possibility of making cosmetics without harmful effects. Plant-based face packs are considered a sustainable and productive way to improve the appearance of the skin. This work is a very good attempt to formulate a herbal face pack containing naturally occurring ingredients like multani mitti, turmeric, curry leaves, sandalwood, red lentils powder. It was suggested that the finished composition was physically and physico-chemically stable and the properties of a standard cosmetic composition intended for skin care.

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