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Formulation & Evaluation Of Herbal Face Pack For Glowing Skin

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Abstract:

The purpose of this paper is to create and assess a herbal face pack that works for glowing skin using natural components in different amounts like multanimitti, turmeric, aloe-vera, sandal wood, orange peel, rose petals, and saffron etc. Because of their extremely low adverse effects, ayurvedic formulations are safer than synthetic ones. A few important parameters, including organoleptic, phytochemical, physicochemical, and physical characteristics, are used to evaluate this manufactured product. Herbal face packs are primarily used to reduce dark circles, acne, and scars by promoting and maintaining blood circulation, revitalizing the skin, and clearing debris from pores.

Keywords: Herbal face pack, glowing skin, Natural ingredients, ayurvedic formulation etc.

Introduction:

People have been using plants to provide important nutrients for healthy, beautiful skin since ancient times. Cosmetics are items that are intended to enhance, clean, and encourage a pleasing look. The skin of the face is the largest portion of the body and acts as a mirror, reflecting each person's unique health. Maintaining bright, shiny, and healthy skin requires a balanced diet rich in lipids, carbs, and amino acids. Women in the past were very aware of their attractiveness and took extra care to maintain the characteristics of their particular skin types. Even now, people still prefer natural medicines including plant extracts for different cosmetic uses, such as neem, aloe vera, tulsi, orange peel, and rose, especially in rural and hilly areas.

These days, a wide variety of packs are available individually for dry, normal, and oily skin types. Using face packs enhances the dermis's fairness and smoothness. It reduces breakouts, wrinkles, acne, and dark circles under the skin. Face packs are recommended for those with oily skin who are prone to blackheads and acne because they fight the bacteria that cause acne lesions and often lessen the quantity of sebum secreted from sebaceous glands. Mixing with dried orange peels, rose petals, and powdered sandalwood will lessen any remaining skin markings. Herbal face packs are currently very popular because they are so much more beneficial than chemical-based ones. They don't create habits, trigger allergies, or be poisonous.

Blackheads and acne can be avoided and sebum production can be decreased with face masks for oily skin. Mixing with dried orange peels, rose petals, and powdered sandalwood will lessen any remaining skin markings. Herbal face packs are currently very popular because they are so much more beneficial than chemical-based ones. They don't create habits, trigger allergies, or be poisonous. They are entirely natural and have a longer shelf life. They don't contain any additional preservatives. They store well for an extended period of time and are easy to cook. This study looks at how to make and evaluate a herbal face pack for glowing skin. They store well for a long time and are easy to cook. Natural elements including multani mitti, turmeric, sandalwood, saffron, aloe vera, rice flour, orange peel, and rose petals are used in the formulation and evaluation of a herbal face pack for beautiful skin.

Advantages of Using Face Pack

1. Provides skin nutrition. Fruit face packs provide skin with vital nutrients.
2. Depending on the herb, helps lessen marks, scars, acne, and pimples.
3. Face packs typically eliminate dead skin cells.
4. The skin is soothed and relaxed by these face masks.
5. They assist in quickly restoring the skin's lost radiance and gloss.
6. Using natural facial masks on a regular basis improves skin tone, texture, and radiance.
7. The appropriate usage of face packs can successfully counteract the negative effects of pollutants and severe weather.
8. They aid in preventing skin aging too soon.

Materials & methods:

Present research article deals with the formulation and evaluation of herbal face pack for glowing skin by using natural ingredient i.e. multanimitti, turmeric, aloe-vera, sandal wood, orange peel, rose petals, and saffron etc.

Collection of raw materials:

The ingredients used for the preparation of face pack are of natural origin based material so multani mitti, saffron were collected from Sadguru ayurvedic medical. Turmeric, sandalwood powder & rose petals were collected from KYDSCT's cop Sakegaon.

Collection of plant material (Orange peel Powder):

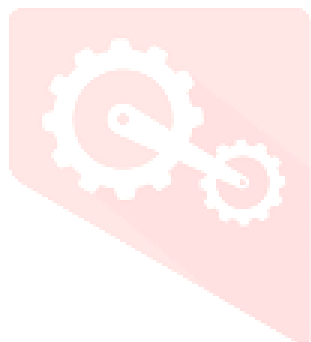
The fruits of citrus sinensis (Orange) were collected from the local market of Bhusawal, Maharashtra and they were peeled off and peels were dried under shade. All other solvents are of analytical grades.

Composition of herbal face pack:

Sr no.	Ingredients	Batches (Quantity in gm)			
		F1	F2	F3	F4
1	Multanimitti	1.5	2	2.5	3
2	Turmeric powder	1.5	1.5	1	1
3	Aloe vera gel	1	1	1.5	1.5
4	Sandal wood powder	1.5	1.5	1.5	2
5	Orange peel powder	1	1	1.5	1.5
6	Rice flour	3	2.5	2	1
7	Saffron	q.s	q.s	q.s	q.s
8	Rose petals powder	q.s	q.s	q.s	q.s
9	Rose oil	q.s	q.s	q.s	q.s
10	Distilled water	q.s to 10gm	q.s to 10gm	q.s to 10gm	q.s to 10gm

Methods of preparation:

All of the chemicals designated as F1 through F4 were used in different concentrations to create four distinct formulations. The formulation table included information on each ingredient's concentration. Using sieve #120, the precise amount of components was weighed and processed into a fine powder. Next, for homogeneous mixing, all materials were combined geometrically using the serial dilution method. After that, the ready-made face pack was placed in the proper wide-mouth container and used for more research.



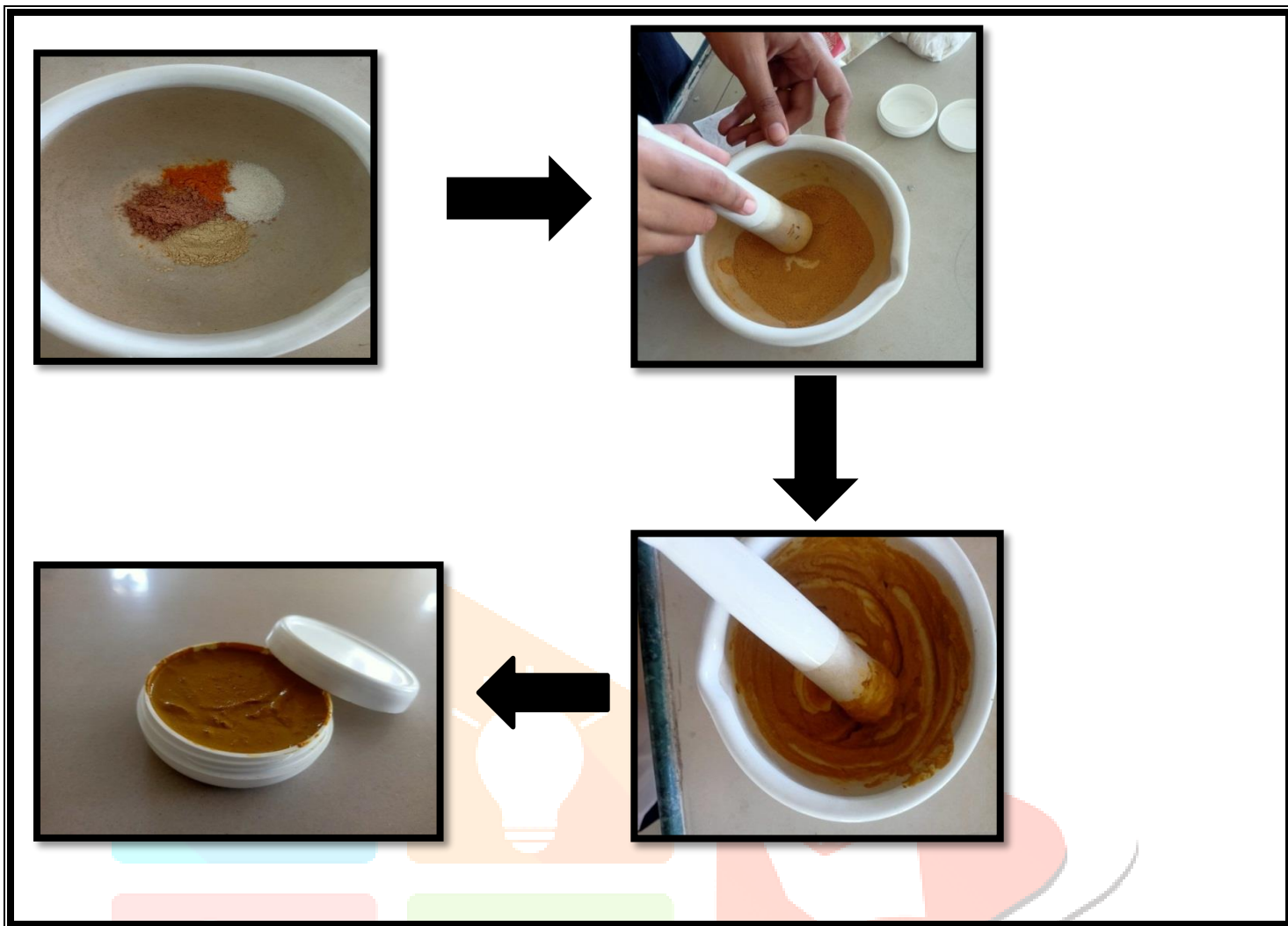


fig: formulation of herbal face pack

Procedure for the application of face pack:

Place the ready-made face pack in a bowl, stir in the rose water if needed, and then thoroughly mix before applying to the face. Cover blemishes and pimples as well. left in its current state for roughly 25 to 30 minutes before washing with cold water.

Evaluation parameters:

1. Organoleptic evaluation:

The organoleptic parameters include colour, odour & consistency which will be evaluated by manually for its physical evaluation.

2. Physical Evaluation:

The method of microscopy was used to determine the particle size. The Angle of Repose by funnel method, bulk density, and tapped density by tapping method were used to assess the flow property of the dried powder in mixed form.

3. Physicochemical Evaluation

The determination of physicochemical characteristics encompassed the assessment of extractive value, ash value, pH, and moisture content.

4. Phytochemical evaluation:

The presence of several phytoconstituents was assessed in the herbal face pack's aqueous extract using established protocols.

5. Irritancy test:

Mark a square centimetre on the left hand's dorsal surface. The specified area was covered with a certain number of prefabricated face packs, and the application time was noted. Irritability, redness, and edoema were noted for the entire day and checked on at frequent intervals.

6. Stability Studies

A month-long stability test of the obtained formulation was carried out by storing it at various temperatures. The sealed glass vials containing the formulation were kept at various temperatures, such as room temperature and 400C, and their physical characteristics, such as colour, texture, pH, and smell.

Result & Discussion:

1. Organoleptic evaluation:

The herbal face pack evaluated for their morphological characteristics shown in the table.

Sr no.	Parameters	Observation			
		F1	F2	F3	F4
1	Color	Brownish yellow	Yellowish	Brownish yellow	Brownish yellow
2	Odour	Pleasant	Pleasant	Pleasant	Pleasant
3	Appearance	Smooth	Smooth	Smooth	Smooth
4	Texture	Fine	Fine	Fine	Fine
5	Smoothness	Smooth	Smooth	Smooth	Smooth
6	Washability	Easily washable	Easily washable	Easily washable	Easily washable

Table: Organoleptic evaluation of all formulations

2. Physical Evaluation:

Herbal face pack was evaluated for physical parameters (powder property) showed in the Rheological findings justified the flow (powder) properties of the herbal face pack. It was found to be a free-flowing and non-sticky in nature.

Sr no.	Parameters	Observation			
		F1	F2	F3	F4
1	Bulk density	0.52g/ml	0.56g/ml	0.43g/ml	0.51g/ml
2	Tapped density	1.26g/ml	1.53g/ml	1.02g/ml	1.59g/ml
3	Angle of repose	39.23°C	35.98°C	34.21°C	34.91°C
4	Hausner's ratio	1.78	1.39	1.33	1.62

Table: Physical evaluation of all formulations

3. Physicochemical Evaluation

Herbal face pack was evaluated for physicochemical parameters showed in the Table. The pH of formulation was found close to neutral. The ash content and moisture content was within limit. The particle size of formulations was found in the range of $23.6 \pm 2.4\mu\text{m}$.

Sr.no	Parameters	Observation			
		F1	F2	F3	F4
1.	pH	6.72	6.62	6.85	7.69
2.	Loss on drying	4.5	2.9	2.7	3.4
3.	Ash content	93±0.83	97±0.65	85±0.54	89±0.82
4.	Particle size	26.4±2.6 µm	28.6±3.9	23.6 ±2.4µm	26.8± 5.3 µm

Table:

4. Phytochemical evaluation:

The herbal face pack was evaluated for phytochemical parameters which are shown in the table.

Sr no.	Test	Observation	Result
1.	Ferric chloride test	Wine red colour produced	Tannin present
2.	Shinoda test	Bright violet colour produced	Flavonoids present

5. Irritancy test:

The results of irritancy test were shown in Table. The formulation F3 showed absence of irritation, redness and swelling during irritancy studies. This formulation have safe to use on skin.

Sr.no.	Parameters	Observation			
		F1	F2	F3	F4
1	Irritation	Yes	Nil	Nil	Nil
2	Redness	Nil	Yes	Nil	Nil
3	Swelling	Nil	Yes	Nil	Yes

6. Stability Studies

The result of stability study of F3 formulation was shown in the table.

Sr no.	Parameters	Room temp.	40±0.5°C
1	Color	No change	No change
2	Odour	No change	No change
3	pH	6.85	6.87
4	Texture	Smooth	Smooth

Conclusion:

Nowadays natural remedies are more acceptable than synthetic one because they are less risky and have less adverse effects than synthetic ones, they are more widely accepted. The worldwide market for herbal formulations is growing. Making use of herbal face masks might help maintain skin health. smoothness, enhance blood flow, reenergize the muscles, and remove impurities from the skin's pores. We have done a decent job of making a herbal face pack with natural herbal ingredients like multani mitti, turmeric, sandal wood, saffron, aloe vera, rice flour, orange peel, and rose petals. After stabilising the storage conditions, we tested the face packs and found that they had good properties, such as not irritating the skin. It has been revealed that the herbal face pack has the power to give skin an effective radiant impact. Because of the entire study's beneficial effects on people, it can be used to support claims made about products.

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