

Formulation and Evaluation of Ant pigmentation Glossy Herbal Face Pack

Akanksha Lokhande^{1*} Ms.Bhavana Tambe²

Student¹, SMT Institute of Diploma Pharmacy, Dhamangaon, Nashik.

Lecturer², SMT Institute of Diploma Pharmacy, Dhamangaon, Nashik.

Submitted: 01-05-2023

Accepted: 10-05-2023

ABSTRACT:

Dull skin is the most common problem amongst people. Everyone wants to get fair and charming skin. The main of this work is to formulate and evaluate the herbal face pack for glowing skin by using herbal/natural products. All natural herbal ingredients such as Neem powder, Alovera powder, Turmeric, Orange peel powder, Gram flour, Rice flour, Sandalwood powder, Nutmeg powder, Bael leaf powder, Red lentils (Masoor dal) were purchased from local market in the form of dried powder. All natural ingredients were weighed accurately. And mixed geometrically for uniform formulation. Then evaluated parameters including Morphological, physiochemical, phytochemical, and along with irritancy and stability examination.

KEY WORDS: Herbal drug, Herbal drugs Powder, Herbal Formulation, Herbal Face pack, Evaluation.

I. INTRODUCTION

Various plants have been utilized for management, cleaning, and beauty since ancient times. Face skin is the major part of the body, which indicates the health of an individual^[1]. Cosmetics are products used to clean, beautify, and promote attractive appearance Face pack is the fine powder which is used for application on face. These preparations are applied on the face in the form of liquid or paste and allowed to dry for giving tightening, and cleansing effect to the skin^[1]. Using herbal cosmetics is that it is pure and does not have any side effects on the human body. Some people have rough skin and when they don't take sufficient care, then the skin turns dark due to the overexposure to the sun, other pollutants etc.^[7]. This face pack has natural skin lightening property and can be easily prepared at home. Face packs with natural constituents are rich vital vitamins that are essential for the health and glow of the skin. In this article we have formulated herbal face pack to

whiten, lighten and brighten the skin naturally for men and women^[7].

They are usually left on the skin for 10-25 minutes to allow all the water evaporate, the resulting film thus contracts and hardens and can easily be removed. Natural face packs are very easy to use and apply to the skin. Nowadays, Acne, Black head, Pimples, Dark circle are common among youngsters and person who suffers from it. According to the Ayurveda, skin problems are normally due to the impurity in the blood. Accumulated toxins in the blood during improper food and lifestyle are causing skin related diseases.

In Ayurveda, the herbal paste is called as 'Mukha Lapa' used for a facial therapy, this herbal paste smeared on face to treat acne, pimple, scars, marks and pigments^[11]. Herbal face packs are cheaper and have no side effect for getting fair skin naturally. Herbal cosmetics are the products which are used to purify and beautify the skin. The main advantage of using herbal cosmetics is that it is pure and does not have any side effects on human body. Face is the smooth powder which is used for facial application^[2].

USES:^[10]

- Brightens the skin tone
- Removes the tan
- Removes impurities on skin that causes pimples and acne
- Antiseptic
- Reduces dark circles

ADVANTAGES:

- Due to turmeric's presence, have antibacterial properties to treat mirror cuts and masks.
- They offer organic benefits for whitening skin and anti-aging.
- Almost any skin ailment that you might be experiencing has a natural face pack that can help.
- Suitable for most skin type without any side effect.

- They are inexpensive
- They do not any side effect till the time you don't have any possible allergies towards any of the mentioned ingredients

II. MATERIAL & METHOD:

The crude drug used in this study of our research was procured from the local area^[5]. The

entire ingredients were cleaned, washed, shade dried and powdered finely for the preparation of herbal face pack. The following ingredients were used for the preparation of Anti pigmentation glossy herbal face pack like Neem powder, Chandan powder, Bael leaf, Red lentils, Alovera powder, Turmeric, Gram flour, Rice flour, Orange peel powder, Nutmeg Powder^[4].

PREPARATION OF HERBAL FACE PACK:



Herbal Drugs Powder Herbal Face Pack
Figure 1: Herbal Drugs Powder & Herbal Face Pack

FORMULATION TABLE:

| Sr No. | Ingredients | F1 (20 gm) | F2 (20 gm) | F3 (20 gm) |
|--------|-------------------------|------------|------------|------------|
| 1 | Chandan Powder | 3 gm | 4 gm | 4 gm |
| 2 | Neem Powder | 2 gm | 1.5 gm | 1.5 gm |
| 3 | Aloe vera Powder | 2 gm | 2 gm | 1 gm |
| 4 | Orange Peel Powder | 2 gm | 2.5 gm | 2 gm |
| 5 | Turmeric Powder | 2 gm | 1 gm | 1 gm |
| 6 | Rice Flour | 2 gm | 2.5 gm | 2 gm |
| 7 | Bael Leaf Powder | 2 gm | 1.5 gm | 2 gm |
| 8 | Gram Flour Powder | 1 gm | 1 gm | 3 gm |
| 9 | Red Lentils(Masoor Dal) | 2 gm | 1.5 gm | 1.5 gm |
| 10 | Nutmeg Powder | 2 gm | 2.5 gm | 2 gm |

EVALUATION TABLE:

1. Morphological Evaluation

| Sr No. | Test | F1 | F2 | F3 |
|--------|------------|-------------|-------------|-----------------|
| 1 | Colour | Olive Green | Olive Green | Olive Green |
| 2 | Odour | Bitter | Bitter | Slightly Bitter |
| 3 | Appearance | Fine | Fine | Smooth |

| | | | | |
|---|------------|-----------------|--------|--------|
| 4 | Texture | Fine | Fine | Fine |
| 5 | Smoothness | Slightly Smooth | Smooth | Smooth |

2. **Irritancy Test:** The formulation shows the absence of irritation, redness, swelling during irritancy studies. And the formulation is safe to the skin. The irritancy test was shown in table.

| Sr No. | Parameters | Observation | | |
|--------|------------|-------------|----|----|
| | | F1 | F2 | F3 |
| 1 | Irritation | No | No | No |
| 2 | Redness | No | No | No |
| 3 | Swelling | No | No | No |

1. **Irritation:** The face pack is mixed with rose water and applied on face, allowed it to dry for 15-20 minutes. When the face pack was applied no irritancy was observed.

2. **Redness:** After washing the face pack with the help of water no redness was observed.

3. **Swelling:** No swelling was observed after washing the face pack.

3. **Phytochemical Evaluation:**^[14,15].

It was found to be a presence of phytoconstituents such as carbohydrates, alkaloids, glycosides, tannins and volatile oil. Which acts as a good nourished for skin, the herbal face pack was evaluated for phytochemical parameters.

| Sr No. | Phytoconstituents | Observation | | |
|--------|-------------------|-------------|----|----|
| | | F1 | F2 | F3 |
| 1 | Carbohydrates | + | + | + |
| 2 | Alkaloids | + | + | + |
| 3 | Glycosides | + | + | + |
| 4 | Tannins | + | + | + |
| 5 | Volatile Oil | + | + | + |

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

graduated (1ml) measuring cylinder. Measuring cylinder was fitted on the tapped density apparatus. The instrument was switched on it raised the cylinder on the base from a height about 4 inches.

Tapped density = Weight of drug / tapped volume.

Tapped Density: 10gm of powder was accurately weighed and carefully introduced into a 100 ml

| F1 (Weight of drug 10 gm) | F2 (Weight of drug 10 gm) | F3 (Weight of drug 10 gm) |
|------------------------------|------------------------------|------------------------------|
| Tv = 19 Td = 0.52 | Tv = 18 Td = 0.55 | Tv = 17 Td = 0.58 |

Bulk Density: 10 gm of powder was accurately weighed and carefully introduced into a 100 ml graduated (1ml) measuring cylinder. The cylinder was dropped at 2 sec interval into a hard surface three times for a height of a one inch to equalize

upper surface of powder. Then, the volume of powder was noted and the bulk density in gm/ml was calculate Bulk density = Weight of drug / bulk volume.

| | | |
|------------------------------|------------------------------|------------------------------|
| F1 (Weight of drug 10 gm) | F2 (Weight of drug 10 gm) | F3 (Weight of drug 10 gm) |
| Bv = 24 ml Bd = 0.41 | Bv = 25 ml Bd = 0.4 | Bv = 23 ml Bd = 0.43 |

P^H: P^H of formulated herbal face pack was determined by using PH meter. 5 gm Herbal face pack placed in 100 ml of beaker.^[12]



Figure 2: P^H Meter

| | | | |
|----------------------|------|------|------|
| Formulation | F1 | F2 | F3 |
| P^H | 5.70 | 6.17 | 6.47 |

III. CONCLUSION:

In the present study, people need cure for various skin problems without side effect. Natural remedies are more acceptable in the belief that they are safer with fewer side effect than the synthetic ones^[1]. Herbal ingredients open the way to formulate cosmetics without any harmful effect. Thus in the present work, herbal formulations of Herbal face pack have growing demand in the world market^[1].

IV. RESULT & DISCUSSION:

Herbal face packs or masks are used to stimulate blood circulation, rejuvenates the muscles and help to maintain the elasticity of the skin and remove dirt from the skin pores. The advantage of herbal cosmetics is their non-toxic nature, reduce the allergic reaction and time tested usefulness of many ingredients^[1]. I was prepared three formulation i.e. F1, F2 and F3. From which we observed that the F3 formulation is best as compare to F1 and F2. The F3 formulation has good color, and p^H. It gives natural Glow on face.

The F3 formulation is easily washed and it makes skin soften. The herbal powder used in this formulation are totally natural and the Turmeric which is antiseptic, Gram Flour Powder helps to remove dullness from skin, Aloe Vera also given smoothing effects and the chandan powder which helps to remove scars, redness, treat open spores and scrubs away the dead skin cells.

REFERENCES:

- [1]. Swati Siddheshwar Londhe*, Manghesh Gautam Bhosale and Amol Arun Joshi, World Journal of Pharmaceutical and Medical Research 2) Ramakrishna S*, Gopikrishna Uv, (Jetir)
- [2]. Yadhav N Yadhav R International Journal of Recent Scientific Research Donode, Nilesh S. Sirsat, Priti R. Neware¹, Rohit S. Rahangdale, Om D. Patle, Megha M. Suryawanshi, Prajakta S. Donode. And Nilesh S. Shirsat International journal of food and Nutritional Science.
- [3]. Sachin Bhagvat Aglawe ,Amol uttamrao Gayke, Suraj Anil Mindhe,Varsha Gajanan Rane, International Journal Of pharmacy and Biological science
- [4]. Ravi Kumar*, Komal, Bharat Institute of Technology Meerut (UP) INDIA Ashian Journal of pharmaceutical research
- [5]. Avinash O. Maske, Manisha pandhare, Ashwin D wanjari International journal of advance in pharmaceutical
- [6]. Sachin B. Somwanshi*, Kira S. Kudale, Ramdas T. Dolas ,International journal of research in Ayurveda and pharmacy
- [7]. Sanket A. Avhad*, Amol A Dixit, Shweta S Bhakare, Jayashri k. Akiwate, Digvijay U Aswale, Rahul V. Anbhule. Journal of Drug delivery and Therapeutics.



- [8]. Bhavika Ramttekkar*, Vijay Gulkari, Alpna Asnani, Datta Avhad. International Journal of pharmacy & pharmaceutical research (IJPPR)
- [9]. Aswale Ashwini E, Gund Akshada L, Chaugule Afroz N, Awate Pranav V, Shelke Dipali S. International journal of Advance Research in science, Communication and Technology. J
- [10]. Atish Y. Sahare, Tikesh R Agrawal, Sonal S Gupta, Dinesh V Panpaliya, Pooja S Dhoke International Journal of Innovative Research In Technology IJIRT
- [11]. Miss Telange-Patil P.V, Mr Pahade S.A, Miss Nimbalkar A International Journal Creative Research Thoughts (IJCRT)
- [12]. Dr.K.R.Khamdewal 'Practical Book of Pharmacognosy'Nirali Prakashan, Page No.25.1 to 25.6
- [13]. S.R.Kale & R.R.Kale 'Practical biochemistry and Clinical Pathology ,Nirali Prakashan Page no.05.