

Formulation and Evaluation of Poly Herbal Facial Scrub

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Abstract— when applied on the skin cause dryness of skin after its long term use which results less life of skin problems of acne and redness. Solution for this problem is use of Facial scrub once or twice in week which consist ingredients which increases cleansing, softening, moisturizing, fairness of skin. In the present work we have formulated the herbal facial scrub by using a different herbal powders and it was evaluated by using the parameters like smoothness, spreadability, irritation etc.

Index Terms— Poly herbal facial scrub , khus khus , sandalwood,,viscosity, washability, antimicrobial test

I. INTRODUCTION

Facial scrub is a cosmetic or a beauty product or a treatment which cleanses and exfoliates the skin of the face or body. Facial scrubs are beneficial to remove dirt, skin cells and sebum or oil, blackheads and Whiteheads. It helps to maintain skin appearance.

There are three kinds of skin types, oily skin, sensitive skin and dry skin. For a person with dry skin must use the facial scrub, which contains the moisturizing and hydrating ingredients.

If the person is having sensitive skin, he or she should use gentle scrub. And the person with oily skin should be using an exfoliation which prevents pimples dullness and breakouts and helps to control oiliness. Depending on the skin types facial scrubs are advised to use twice or thrice a week.

This helps to exfoliate skin and clear acne with giving smoother appearance.

II. MATERIAL USED

1. Custard Apple Powder

- Synonym - annona squamosal

Biological source-

- (custard apple) belongs to the family Annonaceae and is an important tropical fruit cultivated in the West Indies, South and Central America, Ecuador, Peru, Brazil, India, Mexico, the Bahamas, Bermuda, and Egypt

Description-

- Colour - Dark brown coloured
- Odour - Mangoliales
- Taste - Sweet

Chief chemical constituents-

Proanthocyanidins , Alkaloids and Flavanoids
Uses

- Good for wrinkles and aging
- Prevent acne
- Remove dirt from pores

2. Neem leaves powder

- Synonym - Nim
- Biological source-

It consists of dried leaves of Azadirachta indica belonging to family Meliaceae.

- Description-
Colour - Green
Odour - Pungent
Taste - Bitter

- Chief chemical constituents-
Nimbinin, Nimbidin, Quercetin

- Uses-
Skin toner, Lightens skin blemishes, Remove blackheads

3. Sandalwood powder

- Synonym- Sandalwood tree
- Biological source –

It consists of dried bark of Santalum album belonging to family Santalaceae.

- Description-
Colour - Brown
Odour - Aromatic
Taste - Unpleasant

Chief chemical constituents-
Santalol, Cedrol, Esters

- Uses –
Soothe sunburn, Remove suntan, Reduce signs of aging skin

4. Honey

- Synonym- Shahad
- Biological source-

It consists of saccharine liquid prepared from the nectar of the flowers by the hive-bee Apis mellifica belonging to family Apidae.

- Description-
Colour - Yellow brown coloured liquid
Odour - Sweet
Taste - Sweet

- Chief chemical constituents-
Dextrose and laevulose (70-80%)
Dextrin (0.06-1.25%)
Proteins

- Uses-
Good for wrinkles and aging
Prevent acne
Remove dirt from pores

		market Godhra.
5.	Honey	Honey collected from local market Godhra.
6.	Almond Oil	Almond oil collected from local market Godhra.
7.	Geranium Oil	Geranium oil collected from local market Godhra.
8.	Glycerine	Collected from Pharmacognosy lab. BpharmacyCollegeRampura

FORMULATION TABLE OF POLY HERBAL FACIAL SCRUB

Sr. No.	Crude Drug	Quantity	Uses
1.	Custard apple powder	30g	Rich source of vitamin A
2.	Neem leaves powder	5.0g	Anti bacterial
3.	Sandalwood powder	10g	hyperpigmentation
4.	Khus khus	5.0g	Natural Exfoliator
5.	Honey	3ml	Preservative, glowing skin
6.	Almond oil	1.5ml	Softer , smoother skin
7.	Glycerine	2ml	Hydrating agent
8.	Geranium oil	1.5ml	Reduces swelling , fragrance

III. COLLECTION OF MATERIALS

Sr.no	Materials	Collection
1.	Custard Apple	Custard Apple was collected from local market Godhra.
2.	Neem Powder	Neem Powder was collected from local market Godhra.
3.	Red Sandalwood	Red Sandalwood Powder was collected from the local market Godhra.
4.	Khu-Khus	Khus- Khus collected from local



PREPARATION OF POLY HERBAL FACIAL SCRUB

- For preparation of Polyherbal facial scrub, the main ingredient is custard apple powder.
- Firstly the pulp of custard apple is taken and dried at sun temperature to evaporate moisture and for obtaining dried powder.
- After the powder is dried The another dried powder like neem powder and sandalwood powder are also taken and weighed accurately
- Now adding firstly a neem powder after weighing ,slowly in mortarpaste and titurating until it becomes smooth now adding slowly sandalwood powder while titurating and then adding custard apple powder after weighing ,slowly while titurate them continuously.
- Now adding drop by drop almond oil and honey and 2-3 drops geranium oil for fragrance by Avoiding lump formation.
- Lastly add 2-3 drops glycerin and lastly add some amount of khus khus and mix it properly

EVALUATION

1. Organoleptic properties

Sr.no	Evaluation parameter	Observed value
1	Color	Red Brown
2	Odour	Pleasant
3	Texture	Little Harsh

2. Spreadability

Small amount of the gel was placed on the glass slide and another glass slide was placed on the gel. A weight was placed on it. The time required for the gel to spread, and the area was measured. The amount and the area of gel on the glass slide represent the efficiency of Spreadability.

3. pH measurement

The pH measurement was done using pH meter. The pH was found to be 6.18



4. Skin irritation test

It was carried out by applying product on the skin for 10-15 min.



5. Washability

Washability is checked after irritancy test How much time does the scrub particles take away to remove & wash from skin.

6. Stability

The stability of the formulation can be tested by filling the scrub in plastic containers and placing it at room temperature for 2 weeks, after 2 weeks, result conclude no changes in taste, coulour, smell, odour.

7. Viscosity Test

Brookfield viscometer is used to measure the viscosity of scrub mPas=16.90, rpm=100,s=65.



8. Antimicrobial test

Antimicrobial test is used to test the bacteria present in sample

RESULT

Sr.no	Evaluation parameter	Observed value
1	Color	Red Brown
2	Odour	Pleasant
3	Texture	Little Harsh
4	pH	6.18
5	Skin irritation	No irritation
6	Viscosity	16.90
7	Spreadability	2.5cm
8	Anti microbial Test	Absent

CONCLUSION

- The present study was attempted to prepare a polyherbal scrub. The prepared scrub was evaluated using various parameters and was found to be satisfied for the application on the skin to make it healthy and nourishing, glowing, de tan, without any side effects. The prepared scrub is planned to carry out with in vivo studies for its irritancy.

- F3 is more effective than F1 and F2.
- This formulation can be used as an effective poly herbal scrub.

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