

WORLD JOURNAL OF PHARMACEUTICAL RESEARCH

SJIF Impact Factor 8.084

Volume 11, Issue 13, 676-683.

Review Article

ISSN 2277- 7105

A COMPREHENSIVE REVIEW ON HERBAL COSMETICS

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Article Received on 11 August 2022,

Revised on 01 Sept. 2022, Accepted on 21 Sept. 2022

DOI: 10.20959/wjpr202213-25627

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ABSTRACT

India has long history in development of Ayurveda, Unani, siddha, homeopathy. Humans are blessed by natural beauty. To enhance the beauty the herbal cosmetics helps a lot. Various beauty products having herbs are used to look delightful and youthful. Now days, demand of herbal cosmetic is growing in globe market and is a irreplacable gift of nature. It dosen't have any side effects as synthetic products. Herbs contains leave, steams, flower and seeds which are not only used to enhance beauty but also used for nourishing, healing and smoothing appearance. This paper will review on different herbal products, formulation along with research based knowledge and it is concerned about preparation and formulation of herbal cosmetics.

KEYWORDS: Cosmetics, Herbal, Formulation.

INTRODUCTION

The cosmetics have been arising from plants in its historical evolution 8. The word cosmetics was acquire from Greek word "kosmetikos" which means having potential and skill in adorn. [1] As claimed by drug and cosmetic act 1940 and rule to be sprayed, poured, rubbed, or sprinkled on or introduced into or applied to human body or it's any part for ablution, glamorize, promoting enchantment or reshape the appearance. [2] Hearbs are nothing but any pant with leaves or flowers used for flavouring medicine or perfumes. Herbal cosmetics are preparations which are manufactured by using plant products having cosmetic actions. [4] Traditional use of perfuming and skin care in the form of infusions, poultices etc.

The term cosmeceuticals was derived by 'Raymond Reed' founding member of US society of cosmetics chemist in 1961. [8] The term cosmeceuticals design to describe the OTC skincare products that assert therapeutic benift by addition of plant based active ingredient, such as alpha-hydroxy acid, ascorbic acid and coenzyme Q10.^[4] Cosmeceuticals are topical cosmetic pharmaceuticals are use to escalate health and beauty through ingredients the influence the skin's biological functions.^[3] The various topical application product which retard the seeable sigh of aging are called as anti- aging cosmeceuticals.^[3]

There is a large scale variety of herbal cosmetics which are manufactured for daily purpose. Herbs perform multiple functions such as food additives, cosmetics and medicines in form of tea, tablet, capsule 'cream and tincture.^[1] Herbal cosmetics are mainly produced for purpose such as moisturizing dry skin' lighting, removal of dark spots, anti- dandruff effect and skin protection.^[6] Most cosmetic products and methods are deliberated to refine the look of the face.

Facial cosmetics categories into two classes those which improves the basic quality of theskin and second, are those which sit on the skin during active social life.

In the scope of herbal cosmetic phytocosmetics are termed as the products which produced only by plants and herbal constituents.^[3] They generally includes; volatile oils' plants, plant extracts, aromatic waters gums and congenerous mucilage, plant carbohydrates or purified plant components.^[2] Remarkable activities in case of phytocosmetics are mainly anti-oxidant activity, anti-microbial activity and anti-tyrosinase activity. ^[6]

The favorable thing s related to the herbal cosmetics is that it made up of unblended herbs and shrubs and thus do not cause any side effect. The natural content in herbal cosmetics does not produce any side effects on human body; instead they enrich the human body with nutrients and other useful mineral.^[8]

Advantages of herbal cosmetics^[2,4,8]

- ✓ Herbal cosmetics are in demand now days than synthetic chemicals, as these products impart nutrients to the body, improve health and are free from artificial chemicals and have no side effects as related to synthetic cosmetics.
- ✓ Herbal cosmetics are natural and free from all detrimental artificial chemicals which are prove toxic to the skin. In herbal cosmetic instead of traditional artificial products different plant parts and plant extract are used.
- ✓ They are hypo-allergenic and tested and demonstrated by dermatologists to be safe to be

safe to use.

- ✓ Herbal cosmetics are economical.
- ✓ These are not tested on animals.
- ✓ Herbal cosmetics have prolonged history of fingerprint acceptance.

Classification of herbal cosmetics^[4]

Herbal cosmetics are classified on bases of site of application.

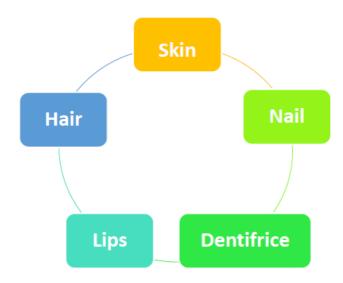


Fig. no. 1: Herbal cosmetics are classified on bases of site of application.

Formulation^[4,7]

Nowadays herbal ingredients are gaining more acceptance among consumer instead of using non herbal ingredient in formulating preparations. The formulation of herbal cosmetics follows the same mechanism as that of the cosmetic preparations composed with synthetic origin. Formulations are depend on the selection of proper emulsifying agent, constitution of appropriate ingredients and modified procedure to get a required products. The creators should verify the quality of raw material and the final products by quality control testing. The other variables tested contains organoleptic characteristics, pH, viscosity, refrigeration and stability towards light. The major disadvantage of herbal ingredients is the attack of microbes which make it unfit for human use. Hence care should be taken to avert the complete bacterial attack.

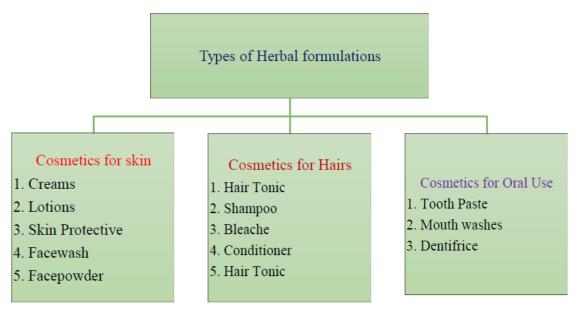


Fig. no. 2: Types of herbal formulations.

List of plants with cosmetically applications $^{[7,11]}$

Table no. 1: Herbal cosmetic plants.

Sr no.	Common name	Botanical name	Parts	Application
1	Jasmin	Jasminum officinale	Flower	Skin tone,
				Moisturizing,
				Anti-aging agent.
	Avacado	Persea americana	Fruit	Skin elasticity,
2				Prevent dry skin,
				Cleanser.
3	Laghukarni	Clementis triloba	Leaves	Prevent skin
3				infection.
4	Karanj	Millettia pinnata	Seed	Skin disorders.
	Brahmi	Bacopa monnieri	Plant	Help in wound
5				healing, Reduces
				stretch marks.
6	Viranga	Embelia ribes	Fruit	Folliculitis.
7	Alfalfa	Medicago sativa	Plant	Cleanser.
8	Orris root	Iris germanica	Roots	Moisture,Skin
				elasticity
0	Witch Hazet	Hamamelis	Leaves	Skin care, Reduce
9				bleeding.
10	Carrot	Daucus carot	Roots	Antioxidant,
10				Protector.
	Ginseng	Panax ginseng	Roots	Reducing Wrinkles
				Promoting
11				elasticity, Reducing
11				Inflammation.
				Lighting Skin
				tone.

4.5	L., ~		~	Antioxidant, Anti-
12	Wheat Germ	Triticum Sativum	Germ	aging product.
13	Kaner	Cascabela thevetia	Root	Skin Disorders
14	Saffron	Crocus sativus		Skin Whitening,
			Styles	Source of vitaminC.
15	Vetiver	Chrysopogon zizanioides	Roots	Heals scars and Diminishes marks
	Clary sage	Salvia sclarea	Infloresenc e orflower	Stabalize production
16				of natural oil and
				sebum
17	Nutmeg	Myristica fragrans	Seed	Restore moisture,
				Reduce sign of
				agening Brighten skin,Heal
18	Angelica	Angelica archangelica		eczema,
	Ingeneu			breakouts
19		Boswellia sacra	Gum	Improve Skintone,
	Frankincense			Defencemechanism
				against bacteria
20	Caraway	Carum carvi L.	Ripe fruit	Regeneration of skin cells.
21	Myrrh	Commiphora	Gum	Soothes iching.
	·	-		Prevent chapping,
		myrrha		cracking and
				sagging.
22	Star anise	Llicium verum	Fruit	Exfoliating. Antiacone, Moisturizing
				effect.
23	Cajeput	Melaleuca leucadendra	twings	Uesed in fungal
				infection, toothache.
24	Patchouli	Pogostemon cablin	Leaves	Helping with oily hairs or dandruff.
		Syncarpia		Paint Solvent,
25	Turpentine	glomulifera	Gum resin	Cleansing agent.
26	Litsea	Litsea cubeba	Fruit	Smoothes the
20				muscle
	Oregano	Origanum vulgare	Dried Leaves	Improve skin
27				condition such as psoriasis,acne,
				eczema.
20	Mass	Maniatia - Cara	Coods	Gives aroma,
28	Mace	Myristica fragrans	Seeds	Dental health
	Chir Pine rosin	Pinus roxburghiiSarg.		Help in hair
29				growth,Skin
				cleansing,Anti cellulite
<u> </u>	<u> </u>		<u> </u>	Conunic

30 Bamboo Bambusa vulgaris Aids col Bamboo producti sap antibact	tion,
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Standardization and Evaluation of Selected Plants $^{[7,9,10]}$

Standardization of herbal cosmetics is the process of recommend a set of levels or inherent characteristics, constant parameters, definitive qualitative and quantitative values that gives an assurance of quality, effectiveness, protection, and repeatability. It is the method of originating and cooperating up on technical standards.

The evaluation of herbal cosmetics is very essential which are performed to ensure the efficiency, storage, processing, operation and stability requirements. The ingredients used in cosmetics should be of the highest quality so as to overcome the irritancy and sensitivity reaction. The physical estimation variables used for herbal cosmetics consist the color, odor, form of physical state, pH, and net content. The evaluation based on analytical methods which are regularly employed by execution and regulatory authorities to ensure that the products confirms to permissible standards and are safe and accurately described. They are classified as classical methods and instrumental methods.

- **1. Classical method:** It is based on the examination and estimation of the chemicalreactivity of analytes in solution.
- 2. Instrumental method: It is based on the detailed inspection of the physical or physiochemical properties of analytes related to their molecular or atomic structure. The skin evaluation can be accomplished visually or by super facial sampling of the skin with image scrutiny of the cells. By evaluating nine basic cosmetic variables related to physical properties of the hair the evaluation of hair care products can be carried out. The parameters contain comb-out on wet hair, comb-out on dry hair, shine, silkiness, absence of static electricity, individualization, bounce, spring back and body. The antidandruff estimation carried out in autumn and early spring. It is generally focus on the antimicrobial activity, solubility in sebum, penetrability of the hair follicles and cytostatic effect.

Evaluation test

- a) Physical evaluation- Color, odor, form, pH, Net content.
- b) Grittiness- Knead the pinch of product on skin and observe the skin with the help of

- magnifying glass. If there is no rash on skin then it is considered free from grittiness.
- c) Bleeding test- It is the test generally use for semisolid preparation in which examine the bleedind of liquid i.e. liquid exclude from preparation. If there is no bleeding then it is said that product is stable at climatic condition.
- **d) Rheology-** It deals with the study of flow liquid and semisolid products. Also determine spredability and pourability of product.
- e) Stability studies It is execute at aloft temperature like 45,90,120 °C, relatively humidity and ph. A period of 6 months and above parameters are estimated periodically to changes in product.
- **f) Infra-red spectroscopy studies** It is used to determine the comparitibility of excipients.
- **g) Chromatographic Evaluation-** Determine of content of cosmetics preparation confirmed by chromatography like TLC, HPLC, HPTLC, Gas chromatography.
- **h) Sensitivity Test-** It is also known as patch test .In third test product is apply on skin or human epidermis and then the observe the skin if there is no rash or eruption then it is free from sensitivity.
- i) Irritation Test It is execute on animal to calculate LD/50 values and acute chronic toxicity variables using mice preferably.

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