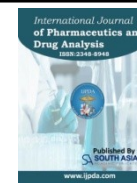




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## A review on herbal cosmetics

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### Abstract

Herbal cosmetics are products that are used to improve and enhance one's look. Herbal compounds are favoured over chemical ones since they are more readily available and have less negative effects. Cosmetics are a useful chemical that is widely used around the globe to balance and improve the normal look of the face and different areas of the body, such as the hand, mouth, finger, hair, eye, and so on. Powders, creams, face packs, moisturisers, lotions, shampoo, hair oil, hair conditioners, nail paint, and other cosmetics are included. A attractive guy or beautiful lady must have soft, lustrous, and healthy skin and hair. Skin damage may be caused by a variety of factors in the environment, including bacteria, chemical poisons, and chemicals. Sandalwood and Turmeric have generally been utilized by Indian people for skin treatment, Henna to shading their hair, hands, and soles, and regular oils to fragrance their bodies. Broad home grown magnificence medicines were in the past acted in India's imperial royal residences to uplift erotic allure and protect general tidiness. Natural face wash, home grown conditioner, natural cleanser, and home grown cleanser are instances of natural beauty care products that are created and utilized consistently. Herbal cosmetics are formulations that combine active bio-ingredients, neutraceuticals, or medicines with cosmetics. Botanicals often include a variety of antioxidants, vitamins, oils, hydrocolloids, essential oils, proteins, terpenoids, and other bioactive compounds. Our ancient understanding of how to utilise plant riches, as described in Ayurveda, Unani, Siddha, and Tibetan medicine, is very useful in identifying phytochemicals.

**Keywords:** Home grown beauty care products, Skin care, Hair care, Herbal cleansers, Herbal aromas, different added substances.

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### Introduction

The possibility of excellence and beauty care products might be followed right back to the beginning of civilisation. Home grown beauty care products are regularly known as normal beauty care products overall [1]. Herbal beauty care products are made by consolidating a few restorative parts to make an establishment on which at least one home grown

substances might be used to treat an assortment of skin conditions. Plants are regularly used in the making of novel cosmeceutical and therapeutic items. Home grown beauty care products will be items that remember spices for their crude or concentrate structure [2]. Herbal beauty care products will be items that are created utilizing diverse OK superficial parts to frame the premise, and afterward at least one home grown substances are added to offer indicated corrective benefits only, and are alluded to as "Home grown Cosmetics" [3]. "Normal beauty care products" is one more term for natural beauty care products. Spices don't give prompt help. They give a method for re-adjusting the body to nature. As of late, a huge assortment of restorative and toiletry plans dependent on Indian spices have been investigated and created. Beside the

regular uses, a few ongoing investigations have taken a gander at the utilization of Indian spices in Personal Care items. Home grown meds are turning out to be more well known attributable to their skin-invitingness and nonattendance of unfriendly impacts. The best part about home grown beauty care products is that they are made completely out of spices and bushes and in this manner have no adverse consequences. The normal synthesis of the spices has no adverse consequences on the human body; rather, it furnishes the body with supplements and other advantageous minerals [4-7]. The term corrective comes from the Greek word "kosmetikos," which signifies "force, request, and designing capacity" [8]. As beauty care products have advanced, they have shaped a nonstop account since man's commencement. In antiquated occasions, 3000BC, man used shadings to draw in the creatures he needed to chase, and he likewise utilized tones to guard himself from rivals by shading his skin and enhancing his body for security and to ingrain dread in an enemy (regardless of whether man or creature) [9]. Cosmetics were first connected with hunting, fighting, religion, and credulity, and subsequently with medication [10]. Raymond Reed, an establishing individual from the US Society of Cosmetics Chemist, instituted "cosmeceuticals" in 1961. He truly utilized the term to depict beauty care products that are dynamic and science-based. Dr. Albert Kligman utilized "beauty care products" in 1984 to allude to drugs that have both restorative and therapeutic properties [11]. Cosmeceuticals are corrective drug half and halves intended to further develop wellbeing and engaging quality by affecting the organic surface and capacity of the skin [7].

#### **Present Status**

Herbal cosmetics have grown in favour in recent years, owing to the fact that herbs are regarded food rather than medication since they are all-natural, pure, and complete, just as nature intended. Herbs may not provide immediate relief, but they do provide a means for the body to reconnect with nature. People in rural and mountainous regions choose natural treatments such as plants and plant extracts for cosmetic reasons, such as Neem, Orange, and China rose [12].

#### **Safe to Use**

In contrast with other excellence items, normal beauty care products are protected to utilize. They are hypoallergenic and dermatologists have tried and checked that they are protected to utilize whenever, wherever. Individuals don't need to stress over securing

skin rashes or tingling since they are made out of normal components. BHA (Butylated Hydroxy-anisole) and BHT (Butylated Hydroxytoluene) are engineered cell reinforcements that are firmly related and used as additives in lipsticks and moisturisers. BHA and BHT can possibly cause hypersensitive reactions in the skin. BHA is delegated a plausible human cancer-causing agent by the International Agency for Research on Cancer. Normal cancer prevention agents, for example, Vitamin C might be found in home grown beauty care products [14-18].

#### **Less side effects**

Manufactured corrective items can possibly aggravate your skin and make rashes. They might obstruct pores and cause skin to become dry or oily. We don't need to be worried about any regrettable incidental effects while utilizing home grown beauty care products. The normal parts guarantee that there are no antagonistic impacts, and it is protected to use on the skin. Natural beauty care products, for instance, are without parabens, the frequently utilized additive in beauty care products that might pervade the skin. Furthermore, they're associated with meddling with chemical capacity [19, 20]. (endocrine interruption) [16].

#### **Cosmetics**

It's difficult to define the word "cosmetic" since its scope and use to different body areas is so broad. Cosmetics are intended to be rubbed, poured, or sprinkled on the skin for the purposes of beautifying, cleaning, and altering the appearance. The primary goal of cosmetics is to improve the look of the face and other body parts by reducing the likelihood of skin problems. It's used to enhance or maintain skin and hair health. Cosmetics make men and women seem more attractive, impressive, and intelligent [13].

#### **Preparations of Cosmetics**

**The cosmetics formulations are mainly divided into three categories**

1. Solid
2. Semi solid
3. Liquids

Talcum powders, Face powders, face packs, masks etc. are included in **solid category**.

Creams, liniments, ointments, wax base creams etc. are included in semi-solid category.

Lotions, hair oil, moisturizers, conditioners, cleansing milk, shampoos, mouthwashes, liniments, deodorants, sprays, etc. are included in liquid category [21].

**Cosmeceuticals**

The magnificence business' quickest extending area is cosmeceuticals. Cosmeceuticals are restorative drug items that mean to improve the wellbeing and presence of the skin by accomplishing a specific objective, like skin inflammation the board, sun security, or hostile to flaw and against maturing benefits. They are both a skin-ensuring and a skin-flickering agent [19].

**Regulatory status of cosmeceuticals**

Beauty care products or medications: what are cosmeceuticals? The planned utilization of a medication decides the lawful contrast between a corrective and a restorative. The current definition doesn't give a reasonable breaking point to a corrective item, and various standards and guidelines apply to various types of beauty care products. Drugs and beauty care products are delegated meds under the 1940 Drug and Cosmetic Act "All prescriptions for interior or outside use in people or creatures, just as all substances planned for use in the conclusion, treatment, relief, or anticipation of any sickness or turmoil in people or animals " [22]. Cosmetic is a word that has many implications "Any thing intended for cleaning, improving, or upgrading appeal when utilized on, in, or on any piece of the human body. Change for all intents and purposes and any material expected for use as a restorative part [23].

**Cosmetic and drug**

Those things are intended to meet both tasteful and remedial requirements. At the point when an item has a few planned applications, this might occur. A cleanser, for instance, is a hair purging item. Since it is utilized to treat dandruff, a cleanser for dandruff is viewed as a drug. Toothpaste with fluoride, antiperspirant antiperspirants, and lotions with sun insurance claims are among the restorative/drug combos [24]. Drug claims are dependent upon an exhaustive assessment and endorsement method by the Food and Drug Administration (FDA), while corrective cases are not needed to be inspected. Notwithstanding the way that there is no proper classification named cosmeceuticals, the word has come to be utilized to portray products that fall among beauty care products and medicines [25,26]. The Federal Food, Drug, and Cosmetic Act isn't perceived by the term. Customers likewise struggle deciding whether "claims" in regards to cosmeceuticals' activity or adequacy are legitimate without FDA leeway. In specific nations, the item classes for the two sorts of beauty care products and prescriptions are unique: For instance, Japan has 'semi medication' merchandise;

Thailand has 'beauty care products controlled' items; and Hong Kong has 'corrective sort drugs. 'The United States, Europe, Asia, and different countries don't have cosmeceutical laws that are in sync [27].

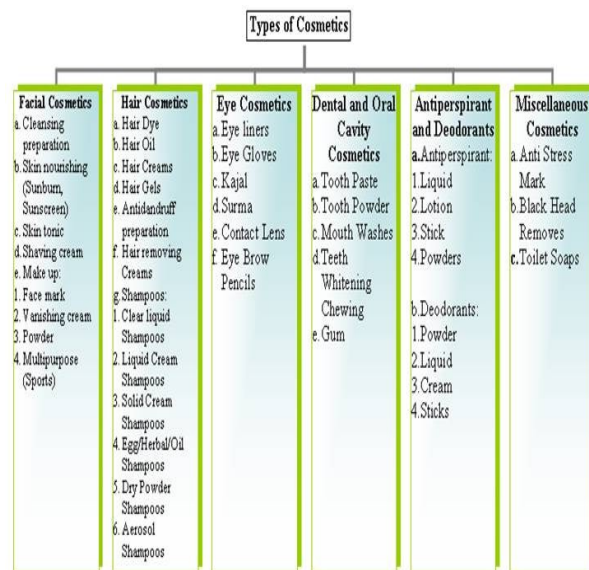
**Definition of Herbal Cosmetics**

These are cosmetics that are produced using plant components that have a cosmetic activity. Botanical extracts have lately become increasingly popular in cosmetics, owing to their gentle effect and lack of toxicity. Cosmetics include both organic and synthetic ingredients. Products made from natural ingredients Include oils, extracts, and secretions, among other things. Pure components acquired via different methods are referred to as phyto-ingredients [9].

**Types According To Site of Application [28]**

- Skin
- Hair
- Dentifrice
- Nail
- Eyes

**CLASSIFICATION OF COSMETICS [29]**



**BASIC SKIN CARE**

It constitutes the first line of defence, skin contains many cells and structures, it is decided into three main layers

**Epidermis:** outermost layer varies in thickness in different regions of body. Provide waterproof barrier and create our skin tone.

**Epidermis is divided into five layers.**

Keratinocytes are cells in the stratum basal that produce and store the protein keratin. Keratin is a fibrous protein that provides hardness and water resistance to hair, nails, and skin. Keratinocytes are cells in the stratum basal that produce and store the protein keratin. Keratin is a fibrous protein that provides hardness and water

resistance to hair, nails, and skin. The Merkel cell is in charge of stimulating sensory nerves. Melanocytes generate the pigment melanin, which provides skin its colour, and they also protect epidermal living cells from UV radiation. The cell processes that connect the cells through desmosomes give the stratum spinosum its spiky look. The epidermis' smooth, transparent layer is known as the stratum lucidum. The most superficial layer, the stratum corneum, is exposed to the outer world. Keratin is a fibrous protein that provides hardness and water resistance to hair, nails, and skin.

Hair follicles and sweat glands are found in the dermis, which is made up of strong connective tissue. Collagen, a protein responsible for skin strength and suppleness, is also present.

Hypodermis: The hypodermis is a layer of fat and connective tissue underneath the epidermis. The body's fat acts as insulation.

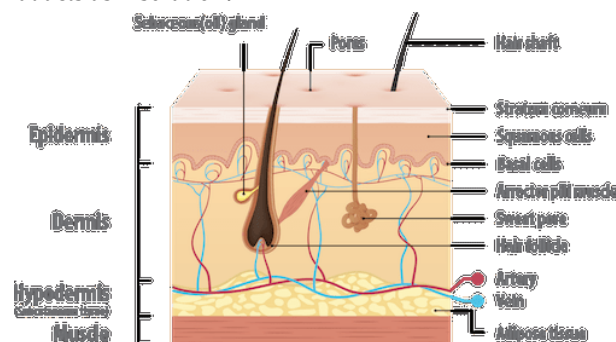


Figure 01: Structure of Skin

#### Functions of skin

- Protection
- Sensation
- Regulation of heat
- Control of evaporation
- Absorption
- Water resistant [30]

#### The Requirement for the Basic Skin

Purging specialist: eliminates dust particles, dead cells, and trash from the skin, which obstructs the pores. Vegetable oils like coconut, sesame, and palm oil are well known cleaners [31].

Toners: Toners fix and tone the skin, keeping it from being presented to a significant number of the toxins that buoy about noticeable all around or different foreign substances. A portion of the spices utilized as toners incorporate witch hazel, geranium, sage, lemon, ivy burdock, and fundamental oils [32]. Moisturizing: Moisturizing supports the conditioning and gracefulness of the skin [33].

#### Herbal Cosmetics for Various Types of Skin [28]

- Rubia Cardifolia (Manjista), Triphala, Tulsi, and Glycerihza glabra with sesame oil for dry skin.
- Face mask made with fruits
- Pulp from a banana or an avocado.
- Usheero, Curcuma longa, Triphala, Azadirctca indica mustaka, and Nimba with coconut oil are examples of herbs for sensitive skin.
- Banana or pineapple pulp may be used as a face mask.
- Tulsi, Idhora, Nimba, and Curcuma longa are examples of herbs for oily skin.
- Strawberry or papaya pulp may be used as a fruit face mask.

#### Herbs Use in Cosmetics [34]

##### Skin care

The following ailments used for the protection of the skin care

##### Coconut oil

It's made by pounding the dried piece of coconut, which contains 60-65 percent of the oil. The name "Coccus nucifera" carries delight to the Areaceae family. Coconut oil has a ton of glycerides of lower chain unsaturated fats in it. Coconut oil is gotten from the coconut palm tree's natural product or seed. Coconut oil has a liquefying point of 24-25°C, along these lines it could be used in fluid or strong structure and is regularly utilized in cooking and baking. Coconut oil is an incredible lotion and conditioner for the skin. (5) A research found that utilizing additional virgin coconut oil as a lotion is both compelling and protected, with no regrettable side effects [36].



Figure 02: Coconut oil

##### Aloe Vera

Aloe Vera is a plant that belongs to the liliaceae family and is often used in cosmetics. It has a healing impact on skin wounds and has the ability to moisturise and soften the skin. The amino acids in Aloe vera, such as leucine and isoleucine, glycosides saponin, and other ingredients, such as vitamins and folic acid, have

cleaning properties, while other ingredients, such as vitamins and folic acid, have antioxidant properties, delaying the onset of early ageing signs. Aloe vera's antimicrobial and hydrating properties protect skin against microbial degradation and keep it from becoming dry and harsh. Aloe vera's cooling action offers a cooling feeling and inhibits the onset of sunburn [37].



**Figure 03: Aloe Vera**

#### *Sunflower oil*

It's a non-unstable oil got from sunflower seeds from *Helianthus annuus*, an individual from the Asteraceae family. Lecithin, tocopherols, carotenoids, and waxes are completely found in sunflower oil. It's idea to play with chemical capacity (endocrine aggravation), just as carotenoids and waxes [5]. It has calming impacts and is noncomedogenic. Simple yet successful oil that has been attempted and tried for quite a long time in a wide scope of emulsions for face and body products [38].



**Figure 04: Sunflower oil**

#### *Jojoba oil*

It's a mix of long-chain, direct fluid wax esters got from the seeds of the desert plant *Simmondsia chinensis*, which has a place with the simmondsiaceae family. Jojoba oil is regularly utilized in beauty care products as a lotion and as a transporter oil for fascinating fragrances since it is promptly refined to take out any smells, has a nonpartisan tone, and is oxidatively stable. Jojoba oil and human sebum are nearly similar. Chemicals, contaminations, the sun, and the maturing system deny sebum of its defensive and saturating properties, bringing about dry skin and

hair. Jojoba oil replaces lost dampness and reestablishes skin and hair to their normal pH balance [39].



**Figure 05: Jojoba oil**

#### *Olive oil*

This oil is a decent oil gotten from the products of the *olea europaea* tree, which has a place with the oleaceae family. Triolein, tripalmitin, trilinolein, tristearate, monoesterate, triarachidin, squalene, - sitosterol, and tocopherol are the fundamental components. It's found in moisturizers, shampoos, and different beauty care products as a skin and hair conditioner. It's a viable unsaturated fat infiltration booster [39].



**Figure 06: Olive oil**

#### *Anti-aging Treatment*

##### *Carrot*

It comes from the plant *Daucus carota*, which has a place with the Apiaceae family. Because of its high nutrient A substance and other significant nutrients, it has been a helpful plant for some years. Carrot seed oil is a reestablishing, invigorating, and hostile to maturing substance. Carotene is utilized to make carote, with less - carotene and - carotene. Carotenes are a sort of carotene that is distinctive orange in colour. In people, - carotenes are somewhat changed over into nutrient A [40].



**Figure 07: Carrot**

### *Ginkgo*

The leaves and nuts of the *Ginkgo biloba* (*G. biloba*) tree have been utilized in China and Japan for millennia to fix an assortment of ailments, including helpless blood dissemination, hypertension, helpless memory, and wretchedness, particularly in children. It's additionally fostering a standing for being a cell reinforcement and calming agent. It is an individual from the *Ginkgoaceae* family [34].

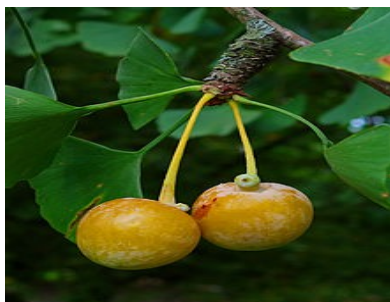


Figure 08: Ginkgo

### *Rhodiola rosea*

Brilliant root, roseroot, Aaron's pole, icy root, lord's crown, lignum rhodium, and orpin rose are a portion of its normal names. It is a *Crassulaceae* plant that fills in bone chilling environments all through the globe. It develops generally on dry sandy soils at high elevations in Europe and Asia's polar regions. *R. rosea* was utilized in conventional people medication to fix sluggishness, gloom, pallor, feebleness, gastrointestinal ailments, contaminations, and sensory system issues, just as to work on actual perseverance, work usefulness, life span, and protection from high height sickness [42]. *R. rosea* is high in phenolic compounds, which are viewed as incredible antioxidants [43].



Figure 09: Rhodiola rosea

### Skin Protection

#### *Green tea*

For millennia, the tea plant (*Camellia sinensis*) has been developed all through Asia [44], (2)- epicatechin (EC), EGC, (2)- EC-3-gallate, and EGCG, which is the most pervasive, are the four fundamental polyphenol catechins found in green tea leaves [45] and [46] Green tea removes or a solitary green tea polyphenol (GTPP),

especially epigallocatechin (EGC)- 3-gallate (EGCG), were found to hinder two-stage compound carcinogenesis (e.g., instigated by 7,12-dimethylbenz(a)anthracene [DMBA] and 12-O-tetradecanoylphorbol 13-acetic acid derivation [TPA]) just as photocarcinogenesis (incited by UVB) [47].



Figure 10: Green tea

### *Calendula*

*Calendula officinalis* has been displayed to have intense cancer prevention agent, calming, and wound-recuperating properties. *Calendula* fundamental oil contains generally - thujene, - pinene, 1,8-cineole, dihydrotagetone, and T-muurolol, as indicated by an earlier research [48].



Figure 11: Calendula

### *Turmeric*

Turmeric is used in numerous Hindu celebrations. Turmeric was utilized to upgrade the shining appearance of their bodies, especially at Hindu weddings. Turmeric was likewise spread on the temples of babies for best of luck. Ladies have generally scoured turmeric on their cheeks to give them a characteristic brilliant glow [49]. It's a radiant yellow-to-orange powder that assists mice with diminishing the measure of burn from the sun cells brought about by bright B (UVB) [50].



**Figure 12: Turmeric Antioxidants**

**Vitamin E**

In plasma layers and tissues, it (Alpha-tocopherol) is the most bountiful lipophilic antioxidant. Vitamin E alludes to a gathering of 30 normally happening compounds (four tocopherols and four tocotrienols) that all have nutrient E action. Its principle work is to stop chain spread and lipid peroxidation by searching lipid peroxy radicals, consequently saving the cell membrane from destruction. [51].



**Figure 13: Vitamin E**

**Tamarind**

Tamarindus indica, an individual from the Fabaceae family, is a wellspring of amino acids, unsaturated fats, and minerals got from tamarind plant parts. Tamarind's most prominent distinctive component is its sweet acidic character, which is owing to tartaric acid. Tamarind natural product, as well as having a high stock of sugars, is likewise a decent wellspring of nutrient B and minerals, has a solid cell reinforcement limit that is by all accounts connected to a high phenolic content, and along these lines might be an important dietary source [52-56].



**Figure 14: Tamarind**

**Vitamin C**

The hydroxylation of proline, procollagen, and lysine requires nutrient C. Vitamin C assists with switching the impacts of oxidative damage. Vitamin C has been used to advance collagen fix, which has assisted with reducing a portion of the side effects of photoaging on the skin [36].



**Figure 15: Vitamin C**

**Hair Care**

**Heena**

Henna is gotten from the Lawsonia inermis plant of the Lythraceae family, which contains the shading particle Lawsone, which when prepared yields Henna powder. Gallic acid, glucose, mannitol, lipids, sap (2%), adhesive, and hints of an alkaloid are among the extra parts found in lawsone. Henna tannic acid and an olive oil green gum, dissolvable in ether and liquor, are delivered by the leaves. Lawsone is a natural product that might be eaten. It is valued for its high nutrient C substance just as the significant oil got from its seeds and mash, which is utilized to fix hair and scalp issues. It is utilized to treat eye problems, going bald, and youngsters' ailments, among other things [11].



**Figure 16: Heena**

**Amla**

The product of a minuscule verdant tree (Emblica officinalis) that develops across India and produces a palatable natural product is known as amla. This organic product is esteemed for its high Vitamin C substance just as the important oil got from its seeds and mash, which is utilized to fix hair and scalp issues. It's utilized to treat eye issues, going bald, and youngsters' illnesses [58].



**Figure 17: Amla**

**Neem**

Neem is a member of the Meliaceae family and has antibacterial and moisturising properties, making it a common ingredient in cosmetics for external use. Neem soap is used to treat minor skin infections or as a preventative measure against fungal infection. Face wash with neem as the main component has anti-acne, anti-wrinkles, anti-ageing, and anti-microbial properties, as well as hydrating and pimple-reducing properties [37].



**Figure 18: Neem**

**Shikakai**

Acacia concinna Linn is the scientific name for Shikakai. (Leguminosae) is a medicinal plant native to Southern Asia's tropical jungles. This plant's fruits are used to cleanse hair, promote hair growth, and act as an expectorant, emetic, and purgative. Acacia concinna Linn's powder. Saponins, alkaloids, sucrose, tannin, flavonoids, and anthraquinone glycosides are all present [59].



**Figure 19: Shikakai**

**Hibiscus**

A red tone made by removing Hibiscus sabdariffa from the Malvaceae family. Hibiscus is plentiful in calcium, phosphorus, iron, and Vitamin B1, all of which help to advance more grounded hair development and forestall untimely greying [19]. Colour acquired from the concentrate of Hibiscus sabdariffa family Malvaceae. Hibiscus comprises of calcium, phosphorus, iron Vitamin B1 used to invigorate thicker hair development and forestall untimely turning gray of hair [19].



**Figure 20: Hibiscus**

**Walnut**

The Regia family of Juglance The leaves of the Juglandaceae family are used in traditional medicine to treat dermatitis, hair loss, scalp irritation, peeling, and dandruff [19].



**Figure 21: Walnut**

**ESSENTIAL OIL**

**Rose oil**

The Damask rose, Iran's public bloom, is a Middle Eastern local with an extensive history. It is one of Iran's most well known plants [61]. Roses are by and large viewed as the world's most famous blossom, inferable from their wide scope of plant territories and botanical features. Rose oil and scent offer an assortment of restorative properties. Rose oil loosens up the psyche and soothes despairing, nervousness, and tension [34], the public bloom of Iran, is local to the Middle East, it has a long history. It is one of the most famous plants in Iran [61]. Roses are generally alluded to as the world most loved bloom partially because of their immense variety in plant environment and flower qualities. Rose oil and aroma have a few helpful impacts. Rose oil helps soothe the psyche and recuperates gloom, apprehensive pressure and tension [34].



**Figure 22: Rose oil**

#### ***Eucalyptus oil***

Around 700 unmistakable types of Eucalyptus exist in the globe, with no less than 500 of them creating fundamental oils. It's produced using Eucalyptus species including *E. cinerea* F. Muell., *E. baueriana* F. Muell., *E. smithii* R. T. Bread cook, *E. bridgesiana* R. T. Bread cook, *E. microtheca* F. Muell., *E. foecunda* Schau., *E. pulverulenta* Sims, *E. propinqua* Deane and Maiden, *E. erythrocorys* F. Muell. They're regularly used to make liniments, inhalants, hack syrups, treatments, toothpaste, and restorative tastes. The chromatographic profile for Eucalyptus oil in the European Pharmacopoeia monograph is as per the following: 1,8-cineole (eucalyptol; at least 70%), limonene (4-12%), - pinene (2-8%), - phellandrene (under 1.5%), - pinene (under 0.5%), camphor (under 0.1 percent) [61].



**Figure 23: Eucalyptus oil**

#### ***Castor Oil***

The seeds of *Ricinus communis*, an individual from the Euphorbiaceae family, are utilized to make this current oil. It's used in the making of lipstick, hair oils, creams, and salves as an emollient [14].



**Figure 24: Castor Oil**

#### **The Benefits of the Herbs**

- Strengthen the immune system
- Detoxification
- Enhance physical and mental well-being
- Aid in sleeping and digestion
- Increase stamina and reduce fatigue [62]

#### **Benefits of Using Herbal Cosmetics**

Herbs are beneficial for preventive and health promotion because they have the following qualities, which are listed below.

- Herbal medication has a long history of usage and is more tolerated and accepted by patients.
- Medicinal plants are renewable, which is our only chance for ensuring a steady supply of low-cost medications for the world's rapidly increasing population [62].
- Medicinal plant availability is not an issue in developing nations like India since the country has a diverse agro-climatic, cultural, and ethnic biodiversity.
- Medicinal plant and herbal product production and manufacturing are both environmentally friendly [63].
- Long-term and seemingly uneventful usage of herbal medications may provide evidence of their safety and effectiveness.
- Herbal medicine has given many of the most powerful medications to contemporary medical science's enormous arsenal of pharmaceuticals, both in basic form and as an unmixed chemical upon which modern medicines are built, all over the globe [64].

#### **Limitations of Herbal Medicines**

The current state of herbal medicine, like any other field of science and technology, has its own limits resulting from its own technical components. The following are some of the most significant drawbacks of herbal medications [65].

#### **Conclusion**

In India, herbal cosmetics are used by more than 70% of the population for health care. Herbal cosmetics have been more popular in the personal care industry, and there is a high demand for them in everyday life. Teeth that are in excellent shape, hair that shines, and skin that glows are all important aspects of a person's appearance. Herbal cosmetics are made using cosmetic components as a foundation, then one or more herbal substances are added to cure various skin diseases and beautify the skin. All of these cosmetic items' chemical formulations involve the inclusion of different natural ingredients such as waxes, oils, natural colour, natural scents, and plant components such as leaves, among others. Cosmeceuticals are substances that fall in between cosmetics (lipstick and rouge) and pharmaceuticals (antibiotics, corticosteroids). Natural beauty preparation based on corrective formulations that provides cosmetic value or may be used as a safe addition to replace synthetic ingredients. More research and development is needed in the area of herbal cosmetics to show efficacy and create a safety profile for herbal cosmetics. It is necessary to perform sufficient safety testing in accordance with current regulatory

rules and requirements. Correct component knowledge, body Prakriti evaluation, personal requirements, consumer perception of product, and benchmark product are all factors that influence your capacity to want the correct cosmetics for you. The significance of quality control for the ability and safety of herbal cosmetic products cannot be overstated. As a result, quality control tests for herbal cosmetics are required. For extended lengths of time, it is considered to be safe.

#### Disclosure Statement

There are no conflicts of interest.

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#### References

1. Harshal A Pawar and Laxmi S Josh. Herbal Cosmetics and Cosmeceuticals: An Overview, *Natural Products Chemistry & Research* Volume 3, Issue 2, 1-8.
2. Joshi Anjali and Singh Nardev. A Review on Natural Additives Used In Cosmetic Preparations, *World Journal of Pharmacy and Pharmaceutical Sciences*, Vol 5, Issue 6, 2016. 630-648.
3. Ferdoushi Jahan, Afroza Akter Happy, Mohammad Moynul Hasan Chowdhury, Mohammad Arif Hossain. Natural Herbs and Spices: A Great Resource for Skin Care Cosmetics, *Journal of Plant Sciences* 2019; 7(4): 86-99.
4. Pandey S, Meshya N, Viral D, Herbs play an important role in the field of cosmetics. *International Journal of Pharm Tech Research*, 2010; 2: 632-639.
5. Gediya SK, Mistry RB, Patel UK, Blessy M, Jain HN, Herbal plants : used as cosmetics. *J Nat Prod Plant Resource*, 2011; 1: 24-32.
6. Saha R, Cosmeceuticals and Herbal drugs: practical uses. *International journal of pharmaceutical Research and Sciences*, 2012; 3: 59-65.
7. Sharma HD, Paramesh R, Trends in aging and skin care: Ayurvedic concepts. *Journal of Ayurveda and Integrative Medicine*, 2010; 1: 110-113.
8. Pandey Shivanand, Meshya Nilam, D.Viral, Herbs Play an Important Role in the Field of Cosmetics, *International Journal of Pharm Tech Research*, 2010;
9. Saudagar R. B. and Sisodiya M. H. Review On Herbal Cosmetics. *World Journal of Pharmaceutical Research*, Vol 7, Issue 7, 2018.
10. Draelos ZD, Botanical antioxidants, *Cosmetic Dermatol*, 2003; 16(10): 41-42.
11. Rohit Kumar Bijauliya, Shashi Alok, Mayank Kumar, Dilip Kumar Chanchal and Shrishti Yadav. A Comprehensive Review On Herbal Cosmetics, *International Journal of Pharmaceutical Sciences and Research*, IJPSR, 2017; Vol. 8(12): 4930-4949.
12. Nidhi Sharma, Priyanka Singh and S K Gupta. A Review on Role of Various Medicinal Plants in Cosmetics and Cure Health, *Current Research in Pharmaceutical Sciences* 2019; 09 (03): 37-41.
13. Dr. Sanjay Kholiya, Dr. Jyoti Gangwal, Dr. Rajendra Prasad Sharma. Herbal Cosmetics for Skin and Hair Care in Ayurveda, *International Journal of Trend in Scientific Research and Development (IJTSRD)*, Volume 4 Issue 1, December 2019,1001-1005
14. Akash Babu. Herbal Cosmetics and Cosmeceuticals, *ASIO Journal of Pharmaceutical & Herbal Medicines Research (ASIO-JPHMR)*, Volume 6, Issue 2; 2020; 13-26
15. Kadam VS, Chintale AG, Deshmukh KP, Nalwad DN. Cosmeceuticals an emerging concept: a comprehensive review. *Int J Res Pharm Chem* 2013; 3: 308-16.
16. Suzuki D: The "Dirty Dozen" ingredients investigated in the David Suzuki Foundation Survey of chemicals in cosmetics. *Backgrounder*, 2010; 1-15.
17. <https://www.pharmatutor.org/articles/herbalcosmetics-used-for-skin-hair-care>.
18. International Agency for Research on Cancer (IARC) monographs on the evaluation of carcinogenic risks to humans, 1978; 17: 1-365.
19. Prajakta N. Dongare, Ravindra L. Bakal, Prashant V. Ajmire, Prerna A. Patinge, Manisha P. More, Jagdish V. Manwar. An Overview on Herbal Cosmetics and Cosmeceuticals, *Int. J.*

- Pharm. Sci. Rev. Res., 68(1), May - June 2021; Article No. 13, Pages: 75-78.
20. U.S. Food and Drug Administration, "Parabens".
  21. VP Kapoor. Herbal Cosmetics for Skin and Hair care, National Botanical Research Institute, Lucknow, vol4(4) July-August-2005
  22. Kuchekar BS (2008) Pharmaceutical jurisprudence. 5- 17.
  23. Jain NK (2007) A textbook of Forensic pharmacy (7th edn.) MK Jain Vallabh Prakashan, Delhi, India.
  24. Ligade VS, Udupa N (2010) Pharmaceuticals, Cosmeceuticals and
  25. D ureja H, Kaushik D, Gupta M, Kumar V, Lather V (2005) Cosmeceuticals: An Emerging Concept. Indian Journal of Pharmacology 37: 155-159.
  26. Hammes C (1997) Cosmeceuticals: The cosmetic-drug borderline. In Drug discovery approaches for developing cosmeceuticals: Advanced Skincare Cosmetic Products. Hori H, Southborough.
  27. Trueb RM (2001) The value of hair cosmetics and pharmaceuticals. *Dermatology* 202: 275-82
  28. <https://www.slideshare.net/rahimbrave/herbal-cosmetics-69811712>
  29. V.Pradeepkumar, S.Ruby, S.Prakash, T.Praveenkumar, S.Prathab. A Review Article On Herbal Cosmetics, *IJPT* | March-2021 | Vol. 13 | Issue No.1 | 7287-7304
  30. Lawton, S., "Skin 1: the structure and functions of the skin," *Nursing Times*, vol. 115, pp.30-33, Dec 2019.
  31. Plants Database. United States Department of Agriculture [online]. Natural resources conservation services. At: <http://Plants.usda.gov/java/name search> Accessed, 2006.
  32. Mortensen, A.; Skibsted, L.H. Relative stability of carotenoid radical cations and homologue tocopheroxyl radicals: A real time kinetic study of antioxidant hierarchy, 1997; *417(2)*: 261–266.
  33. Frison S, Sporns P. Variation in the flavonol glycoside composition of almond seedcoats as determined by maldi-tof mass spectrometry. *J Agric Food Chem.*, 2002; 50: 6818-6822.
  34. Ramya kuber. B, Rama Lakshmi N. A Review On Herbal Cosmeceuticals, *Journal of Emerging Technologies and Innovative Research (JETIR)*, April 2019, Volume 6, Issue 4
  35. Agero AL, verallo VM: Rowell D. 2004. A Randomized double blind controlled trial comparing extra virgin coconut oil with mineral oil as a moisturizer for mild to moderate xerosis. *Dermatitis*, 15(3): 109-116.
  36. Sanjana Patil, Adiksha Mishra, Rashmi Kate, Pradnya Sapkal, 5Dr. Ganesh Deshmukh, A review article on herbal cosmetics for skin, *International Journal of Scientific Development and Research (IJSDR)*, Volume 5, Issue 9, September 2020.
  37. Rahul Kumar Gupta, Pradeep Soni , Jitendra Shrivastava, Pawan Rajput, Shalini Parashar, Cosmeceutical role of Medicinal plants / Herbs: A Review on commercially available Cosmetic ingredients. *International Journal of Innovative Science and Technology*, 2018; 3(4), 70-73
  38. Athar M and Syed MN: Taxonomic perspective of plant species yielding vegetable oils used in cosmetics and skin care products. *African Journal of Biotechnology*, 2005; 4: 36-44.
  39. Rabasco AAM and Gonzalez RML: Lipids in pharmaceutical and cosmetic preparations. *Grasasy Aceites*, 2000; 51: 74-96.
  40. Strube, Michael, and Lars Ove Dragsted. "Naturally Occurring Antitumorigens. IV." Carotenoids Except  $\beta$ -Carotene. Copenhagen: Nordic Council of Ministers, 1999, pp.48.
  41. Prof. Dhanapal Venkatachalam, Samuel Thavamani B, Vincy Varghese K, Vinod K.R, Review on Herbal Cosmetics In Skin Care. *IAJPS* 2019, 06 (01), 781-789
  42. Brown RP, Gerbarg PL, Ramazanov Z (2002) *Rhodiola rosea*: A phytomedical overview. *Herbal Gram. The Journal of the American Botanical Council* 56: 40-52.
  43. Furmanowa M, Skopinska RE , Rogala E , Malgorzata H(1998) *Rhodiola rosea* in vitro culture: phytochemical analysis and antioxidant action. *Acta Societis Botanicorum Poloniae* 67: 69-73
  44. Kuroda Y, Hara Y (1999) Antimutagenic and anticarcinogenic activity of tea polyphenols. *Mutation Research/Reviews in Mutation* 436: 69-97.
  45. Adhami VM, Mukhtar H, Ahmad N, Farrukh A, Yukihiko H (1995) Tea polyphenols as cancer chemo preventive agents. *T cell Biochem suppl* 22: 169-180.

46. Katiyar SK, Elmets CA (2001) Green tea polyphenols skin protection and antioxidant (Review). Int J oncol 18: 1307-1313.
47. Mukhtar H, Katiyar SK, Agarwal R (1994) Green tea and skin anticarcinogenic effects. J invest Dermatol 102: 3-7
48. Okoh OO, Sadimenko AP, Asekeen OT, Afolayan AJ (2008) the effects of Drying on the chemical components of Essential oils of *Caledula officinalis* L. African J Biotechnol 7: 1500-1502.
49. Itami S, Kurata S, Sonoda T and Takayasu S: Characterization of 5 alpha-reductase in cultured human dermal papilla cells from beard and occipital scalp hair. J. Invest Dermatol. 1991; 96(1): 57-60. <http://www.ayurvedic-herbal-products.com/herbal-extracts.html>
50. Ozkur MK, Bozkurt MS, Balabanli B, Aricioglu A, Ilter N, et al., The effects of EGB 761 on lipid peroxide leaves and superoxide dismutase activity in sunburn. Photodermatol photoimmunol photomd 2002; 18: 117-120
51. Kadam VS, Chintale AG, Deshmukh KP, Nalwad DN., "Cosmeceuticals an emerging concept: A comprehensive Review," International journal of research in pharmacy and chemistry, vol. 3, pp.308-316, 2013
52. Rao Diwan PV: Herbal formulation useful as therapeutic and cosmetic applications for the treatment of general skin disorders, 2001
53. Marini JL: Cosmetic herbal compositions. 2007.
54. Mengoli F: Herbal cosmetic compsns-contg. Herbs in mixt of surfactants, essential oils, etc. 1993.
55. Neelakantan K: Dry herbal, cleaning compositions, 1999.
56. Bonte F, Dumas M and Maybeck A: Cosmetic or dermatologic composition containing at least one saponine of the ginsenoside type, and its applications particularly to hair care, 1994.
57. Chaudhary G, Goyal S, Poonia P (2010) *Lawsonia inermis* Linnaeus: A Phytopharmacological Review. International Journal of Pharmaceutical Sciences and Drug Research 2: 91-98.
58. [www.cosmetics.co.in/cosmetic-products.html](http://www.cosmetics.co.in/cosmetic-products.html)
59. Khanpara K, Renuka V, Shukla J and Harsha CR: A Detailed Investigation of shikakai (*Acacia concinna* Linn.) fruit. Journal of Current Pharmaceutical Research, 2012; 9: 06-10.
60. Haghghi M, Tehranifar A, sand Nikbakhta A, Kafi M. 2008. Research and current profile of Iranian production of damask rose (*Rosa damascene mil*). International society of horticulture science, 769: 449-455
61. Sefidkon F, Assareh MH, Abravesh Z, Barazandeh MM (2007) Chemical composition of the Essential oils of four cultivated *Eucalyptus* species in Iran as medicinal plants [E. *microtheca*, E. *spatulata*, E. *largiflorens* and E]. Torquata. Iranian Journal of Pharmaceutical Research 6: 135-140.
62. Burton, G.W.; In gold, K.U.  $\beta$ -Carotene: An unusual type of lipid antioxidant. Science, 1984; 224(2): 569-573.
63. Lucuma uses [online], Available from: <http://www.amilycontent.com/health/herbs/lucuma>.
64. Leonel E. Rojo<sup>1</sup>, Caren Villano<sup>1</sup>, Vladimir Shulaev<sup>2</sup>, Nava Dayan<sup>4</sup>, Mary Ann Lila<sup>3</sup>, Ilya Raskin<sup>1</sup>, antiaging and wound healing properties of pouteria *Lucuma* seed extract, [online] Available from: [http://www.lipochemicals.com/files/5758\\_WOUND\\_HEAL\\_ANTIAGING\\_PROP.pdf](http://www.lipochemicals.com/files/5758_WOUND_HEAL_ANTIAGING_PROP.pdf).
65. Sage (*Salvia officinalis*) to help prevent premature skin aging, [online] Available from: <http://www.dermaxime.com/sage.html>
66. Sage [online], Available from: <http://www.gardenguides.com/484-sage-salvia-officinalis.html>