



## Review on Herbal Hair Oil

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### ABSTRACT:

The scientific study of the structural, physical, chemical, and biological characteristics of crude pharmaceuticals as well as their history of cultivation, collecting, market preparation, and storage is known as pharmacognosy. The definition of cosmetics is any item that is applied to any area of a material body by rubbing, pouring, or sprinkling with the intention of cleaning or enhancing its look. Comparing herbal formulations to synthetic ones, the former always have fewer or no negative effects. Preparing herbal hair oil with substances such as amla, hibiscus, bhringraj, jatamansi, raw garlic, muskmelon seeds, curry leaves, guava leaves, papaya leaves, and methi is the goal of the current study. Based on the aforementioned observations, the mixture of crude and the value derived from it are found to be comparable to the standard values, i.e., there is no grittiness or sedimentation and it exhibits satisfactory organoleptic features. The findings are calculated and presented in this work.

**Keywords:** Hair oil, Herbs, Amla, Curry leaves, Hibiscus, Fenugreek seeds, Coconut oil, Neem.

### ◆ Introduction:

Human existence is not possible without hair. In India, it's customary to combine various hair growth-promoting drugs with hair oils. Since Indian women are known for having long, lustrous, and healthy hair, it is not surprising that taking care of their hair plays a significant role in their self-care regimens. The Charka Samhita, the definitive work on Ayurvedic medicine, emphasizes the need of oleicing the scalp and hair to prevent hair loss and maintain healthy hair. It was suggested to use appropriate herbs that complemented other components to oil your hair daily, and this custom has remained to this day. Dandruff and other problems are addressed by the hair oil preparations. For both men and women, the primary goal of hair oil preparations is to cool the scalp and encourage the growth of beautiful hair. Various oils, including castor, coconut, almond, and onion oils, are used topically to the scalp in conjunction with the recommended herbal remedies. Coconut oil is the most deserving oil base of all because it is more affordable and permeates into hair strands more effectively than other oils. It is advised to use coconut oil with natural remedies for the best hair development. Our first line of protection from the sun's UV rays is the hair on our heads. Hair care products are nothing more than mixtures intended to change the way hair feels. Herbal cosmetics are quite popular since they are produced with easily obtainable ingredients and have fewer adverse effects.

The history of their cultivation, collecting, marketing preparation, and preservation is known as pharmacognosy. German scientist C. A. Seydler coined the term "pharmacognosy" in his 1815 book *Analecta Pharmacokinetics*. The Greek words *pharmakon* (medicine) and *gnosco* (for information) are the source of the word pharmacognosy.

It works with naturally occurring compounds that have medicinal properties. Natural substances derived from plants, animals, or minerals that are utilized in nature are known as raw medicines. "Crude" refers to compound preparations, either separately or in combination. The term "unprocessed drugs" refers to natural goods whose state or value has not been enhanced by further procedures or packing techniques. Ayur means life, and Veda means science. These two words together form the phrase Ayurveda. thus Ayurveda is a "science of life." Herbs are an essential component of the Ayurvedic medical system. Ayurveda's primary objective is to preserve and promote good health while treating sickness with medication, dietary restrictions, and a controlled lifestyle. Plant-based herbal remedies are thought to be safe for use in the treatment of a wide range of illnesses. hair's aggressiveness. Additionally, they encourage the luxuriant development of hair. Herbal medicine-infused hair oil is used as a hair tonic.

### ◆ Aim and objectives:

#### Aim:

The aim of herbal hair oil is to promote healthy hair growth, nourish the scale, and strengthen hair follicles using natural ingredients.

#### Objectives of Herbal Hair Oil:

1. To promote hair growth and strengthen hair roots.

2. To reduce hair fall and prevent excessive hair loss.
3. To nourish and condition the hair and scalp, improving hair texture and manageability.
4. To control dandruff and other scalp infections, promoting a healthy scalp.
5. To prevent premature graying and maintain natural hair color.
6. To protect hair from damage and breakage, improving hair density and volume.
7. To provide a natural and safe alternative to chemical-based hair products.
8. To improve hair shine and luster, enhancing overall hair health.
9. To reduce stress and promote relaxation, improving overall well-being.
10. To create a natural, effective, and safe hair care product for daily use.

These objectives aim to promote healthy hair growth, improve hair appearance, and maintain a healthy scalp, while also providing a natural and safe alternative to chemical-based hair products.

**Plan of work :**

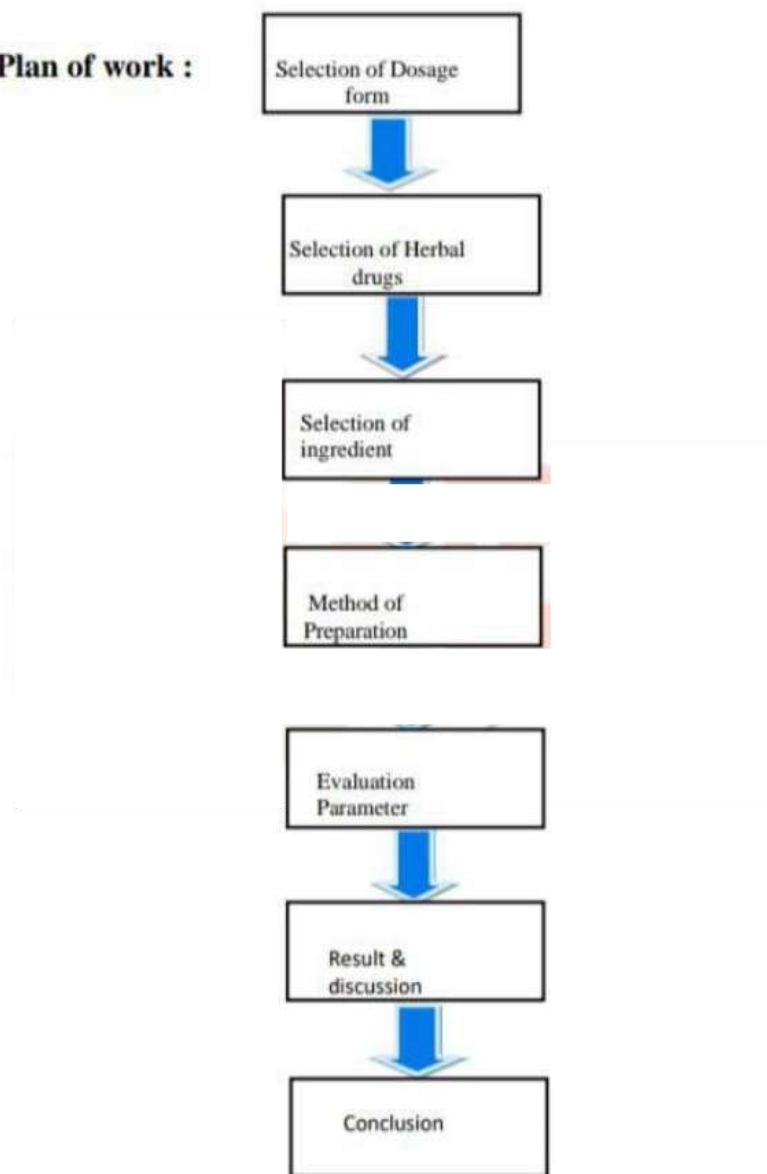


Fig. no : 1

**HAIR OIL:**

A hair care product is hair oil. The definition of a hair care product is a formulation intended to cleanse, restructure, nourish, and preserve the appearance of healthy hair. A hair care product called hair oil is used to condition hair. Hair helps to nourish hair and is a treatment for hair disorders such as baldness, graying, hair loss, and dry hair. Due to people's growing interest in herbal cosmetics, there is a demand for herbal cosmetics. are also more easily available, have fewer adverse effects, and are more effective. A crucial component of herbal cosmetics is herbal hair oil. Many hair salons utilize herbal oil, which is the favored option. they not only encourage hair growth but also give the scalp the essential moisture, which results in gorgeous hair. Herbal remedies included in legume oils are referred to be hair tonics. Several vital elements that are crucial for hair maintenance are present in legume oil. the healthy operation of the sebaceous glands and encourages the growth of natural hair.

They are one of the most well-known hair care products. Every day, as people's living standards rise, so does the usage of hair oil. Hair oil is infused with botanical essences and scents to impart natural flavors and hues.

**◆ Benefits of Hair Oil:**

- It gives natural beauty to the hair. Vegetable oil contains vitamins and minerals nutrients that act as Hair nourishment
- Hair oil helps prevent hair loss and reduces frizz. The ends of the hair need special care, and Vegetable oil pampers them throughout the diet
- Regular use of hair oils and hair oils cures the problem of premature grey hair
- Keeps scalp moist
- Improves hair growth
- Prevents dandruff
- Gives shine.
- Torelieve stress.
- Forlonger and stronger hair.
- preservation of hair color.
- maintaining hair health.

**◆ Material method:****1. Amla:**

**Synonyms:** Amla, myrobalanemblica.



Fig .No.2

**Biological Sources:** dried as well as fresh fruit of the *Emblica officinalis*.

**Family:** Euphorbiaceae. Indian gooseberry

**Chemical constituents:** vitamin C gallotann 5% carbohydrates 14%, lectures, minerals, phenol acid, garlic Acid ,amino acid.

**Role:**

- boost hair growth.
- Good for skin.

- hair & eyes. Promotes the immune functions. Stimulate hair growth.
- Reduce hair growth.
- Reduce Premature Pigment loss from hair.

## 2. Curry leaves:

**Botanical name:** *Murraya koenigii*.

**Family:** Rutaceae.



Fig. no:3

### **Botanical source:**

Family Rutaceae, genus *Murraya*, includes the curry leaf tree. It is called “curry leaves” Because the leaves are usually used in curries. The Indian subcontinent is home to the tree, which is mostly grown for food.

### **Role:**

- Help moisturize the scalp.
- Remove the dead hair follicles.
- Preventing hair loss and thinning of hair.

## 3. Hibiscus:

**Botanical name:** *Hibiscus rosasinensis*.



Fig. No. 4

**Family:** Malvaceae.

**Biological source:** Hibiscus is a fresh flower of *Hibiscus rosasinensis*.

### **Role:**

- Put an end to hair loss.

- Gives hair a vibrant, healthy appearance.
- Avoid becoming gray too soon.
- Increase volume and thicken hair.
- Manage dandruff.
- Protect from breakage, frizz, and dryness.

#### 4. Fenugreek seed:

Fenugreek oil penetrates deep into the scalp and hair, moisturizing, stimulating hair growth, strengthening Wrinkles and softening the overall texture. Fenugreek also has antifungal, anti-inflammatory, anti-Bacterial and anti-pesticide properties that promote overall hair health.



Fig. no:5

#### Role:

- Increase hair thickness and growth.
- Promoting hair growth.
- Controls scalp inflammation.
- Fights dandruff.
- Addsshine and soft texture.

#### 5. Coconut oil:

Coconut oil is obtained from the milk of the fruit of the coconut palm. coconut oil is used as an edible oil and is used in industrial applications to produce cosmetics and detergents.



Fig. No. 6

**Synonyms:** copra oil, coconut oil.

**Biological source:** coconut oil prepared from distillation of dried solid part of endosperm of coconut, *Cocos nucifera* Linn belonging to the

**Family:** Palmae

**Chemical constituents:** triglyceride, lauric acid, myristic acid, permethrin, caproic, protein, caprylic acid, fatty acid, palmitic acid, oleic acid, steric acid.

**Role:**

- To prevents dandruff.
- Makes hair look shinier.
- Moisturizers dry hairs.

**6. Neem:**

**Synonyms:** Azardirachta , margosa, Neem tree



Fig. No. 7

**Biological source:** It consist of dried leaves of AzardirachtaIndicalinn belonging to

**family:** Melliaceae.

**Chemical constituents:** Azardiractin, mellantriol, salanin, nimbidin, ni Mbidol.

**Categories:** Insect repellent, Antifeedant, Antimicrobial.

**Role:**

- Neem against activity lice and prevent from dandruff.
- And also shows insect repellent activity.
- It can also strength in hair and promote hair growth.

❖ **Ingredients:**

Fig. No. 8

## Method

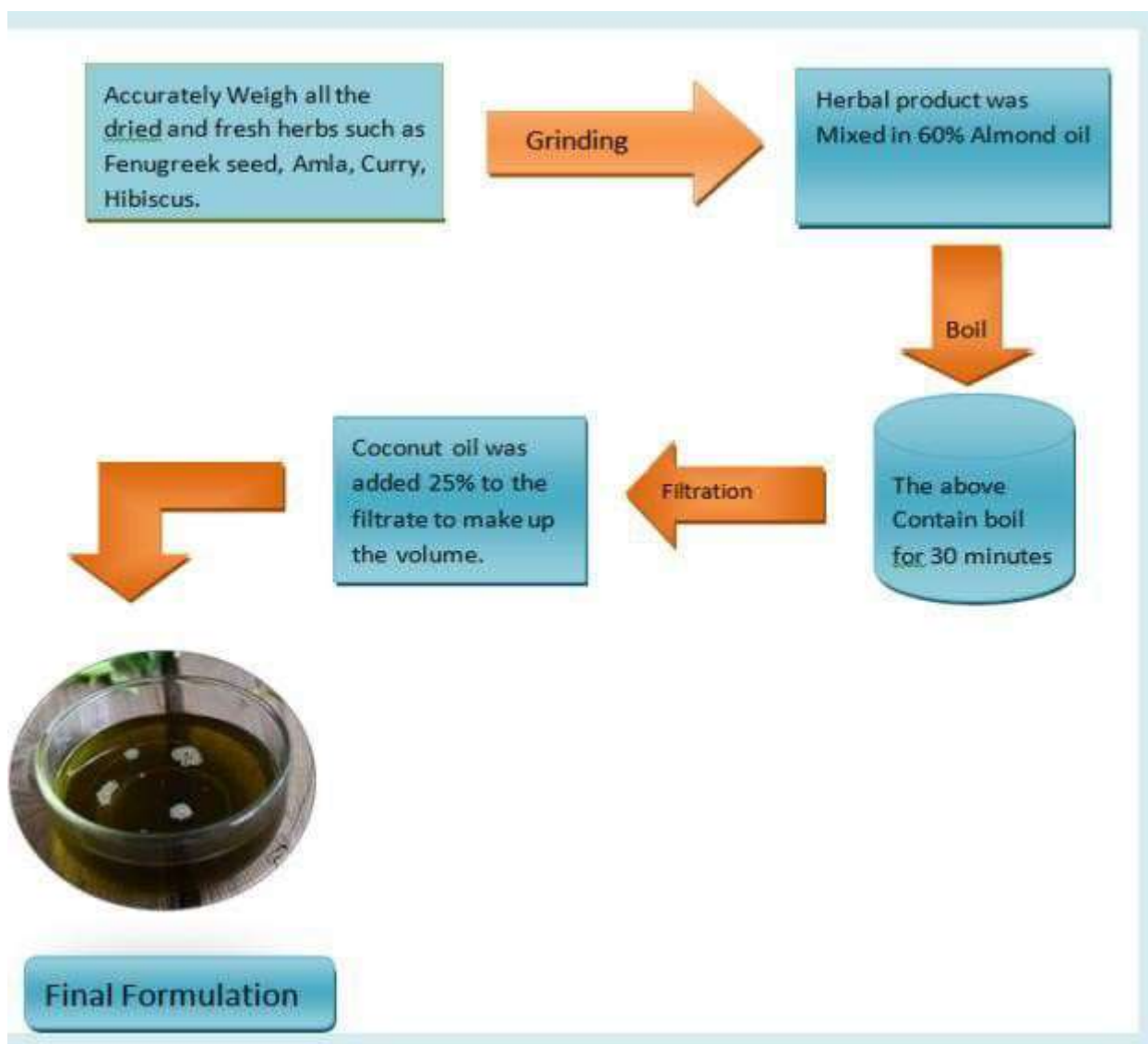


Fig. No.12

## Evaluation test for herbal Hair Oils:

Prepared herbal hair oil became expected for product overall performance which incorporates physicochemical Parameters.

Colour: Greenish black

Odour: characteristics

PH: PH of prepared herbal hair oil was measured by pH meter (ph-6.5).

Sensitivity Test: The prepared lemon grass hair oil was applied on 1 cm skin of hand and Exposed to sun light 4 to 5 min

Skin irritation Test: No irritation(30min.)

Grittiness: Smooth: Sensitivity Test: The prepared herbal oil was applied on 1 cm skin of hand and exposed to sunlight for 4-5 minutes.

Acid Value: 10 ml of oil was added with 25ml of ethanol and 25ml of Ether.

Phenolphthalein was added as indicator and titrated With 0.1M Potassium hydroxide solution.

Skin irritation test: After applying the prepared herbal hair oil on the hand, it was left in the sun for four to five minutes. It was determined That it wasn't irritating to the skin

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**❖ LABEL:**

CATEGORY: Moisturing Oil

STORAGE: Store In Cool and dry place

DIRECTION: External Use Only

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**Conclusion:**

The health care system and personal hygiene have greatly improved with the use of herbal hair oil in cosmetics. One of the most popular hair treatments is herbal oil. Utilizing several herbal components, each with unique benefits when combined well, will have a positive impact on hair. It has been stated that the herbal extracts and ingredients utilized in the production of the hair oil contain capabilities that promote healthy and lustrous hair growth, including hair growth, relaxation, anti-dandruff, hair thickening, and hair fall management. These properties work synergistically when combined. It has been established that the formulation is safe for human usage. The specially designed hair oil will support healthy hair growth in addition to protecting against dandruff, reducing stress, and turning gray hair black. It offers a variety of vital nutrients needed to keep sebaceous glands functioning normally and encourages the growth of natural hair. The formulation process was carried out and assessed using a range of criteria, including pH, specific gravity, viscosity, acid value, color, odor, sensitivity, and sedimentation. Finally, it can be said that the herbal hair oil combinations are of a notable caliber.

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**REFERANCE**

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1. Indian Pharmacopeia 2007.
2. Patni P., Varghese D., Balekar N. furthermore, Jain D.K. Detailing and assessment of home-grown Hair oil for alopecia management. *Planta Indica*. 2(3):27-30, 2006.
3. Adhirajan N, Ravikumar T., Shanmugasundaram N. furthermore, Babu M. In vivo and in vitro Assessment of hair growth capability of *Hibiscus rosasinensis* Linn. *Ethan pharm*. 88: 235-239, 2003. Adhirajan N, Ravi Kumar T, Shanmugasundaram N. Babu M. In vivo and in vitro evaluation of hair Growth potential of *Hibiscus rosa-sinensis* Linn. *J Ethnopharmacol*. 2003; 88(2-3):235-239
4. Kokate C.K, Purohit A. P, Gokhale S. B. *Pharmacognosy*, Nirali Publications, 2008.
5. B. Ramya Kuber, Ch. Lavanya, Ch. Naga Haritha, S. Preethi, G. Rosa, Preparation and evaluation of Poly herbal hair, *Journal of Drug Delivery and Therapeutics*, 2019.
6. Dr. K.R. Kandelwal and Dr. Varun Sethi, *Practical Pharmacognosy*, Nirali Publication.
7. Agrawal A, Pal VK, Sharma S, Gupta A, Irchhiya R. Phytochemical investigation and hair growth Promoting activity of *Hibiscus rosasinensis* leaf extract. *Journal of Chronotherapy and Drug Delivery*. 2016; 7(1):31-39.
8. Agrawal KK, Singh K. Hair growth activity of aqueous extract of *Hibiscus rosasinensis* L flowers. *Indian Journal of Drugs*. 2017; 5(4):142-149.
9. Atherton P. *The essential Aloe vera: The actions and the evidence*, 1997. [Google Scholar]
10. Aunang M, Patel Bhavna R, Solanki Nilesh C, Gurav Patel PH, Verma SS. Method development for Lawsone estimation in Trichup herbal hair powder by high-performance thin layer chromatography *Journal of Advanced Pharmaceutical technology and research*. 2013; 4 (3):160-165.
11. Baliga MS, Dsouza JJ. Amla (*Emblica officinalis* Gaertn), a wonder berry in the treatment and Prevention of cancer. *European Journal of Cancer Prevention*. 2011; 20(3):225-239.
12. Banerjee P, Sharma M. Preparation, evaluation and hair growth stimulating activity of herbal oil. *J Chem Pharm Res*. 2009; 1(1):261-267.
13. Banerjee PS, Sharma M, Nema RK. Preparation, evaluation and hair growth stimulating activity of Herbal hair oil. *Journal of Chemical and Pharmaceutical Research*. 2009; 1(1):261-267.
14. B. Ramya Kuber, Ch. Lavanya, Ch. Naga Haritha, S. Preethi, G. Rosa, Preparation and evaluation of Poly herbal oil, *Journal of Drug Delivery and Therapeutics*, 2019; 9(1):68;73



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15. Rahathunnisa begum and Afzalunnisa begum, Preparation and Evaluation of Herbal Oil, International Journal of Research and Analytical Reviews, E ISSN: 2349-5318
  16. Omkar V. Narule, Manohar D. Kengar, Pranali P. Mulik, Sohel I. Nadaf, Bhagyashree A. Mote, D. Dudhagaonkar, Formulation and Evaluation of Poly Herbal Oil. Research J. Topical and Cosmetic