



A Review on Polyherbal Hair Oil

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ABSTRACT-

As old as humanity and civilization itself is the idea of beauty and cosmetics. They therefore utilise a variety of herbal-infused beauty products to seem lovely and youthful. Because they have fewer side effects and a superior safety and security profile, herbal cosmetics are now frequently utilised by the general public. The goal of the current endeavour was to create herbal oil for general use (application in hairs). Hence, these multi-herbal hair oils promote hair growth, lessen hair loss, and offer dandruff protection. There is a growing preference for herbal formulations over synthetic ones today. They are safer and also produce fewer adverse effects. Hair oil made from a variety of fresh herbs, including Hibiscus Rose, Aloe Barbadensis, curry leaves, amla, and shikakai. The foundation of these compositions is coconut oil. Hair tonic and hair grooming tools are both utilised in hair care products. The hair oil formulation contains a variety of herbal plants that are traditionally used to promote hair growth. They include hibiscus rosa, carry leaves, amla, shikkai, aloe vera, and coconut oil. The prepared herbal oil was assessed based on a number of factors, including viscosity, saponification value, pH, and others.

Keywords: [polyherbal hair oil, herbs, Herbal plant, Antidandruff , Herbal formulation]

Introduction

Hair is one of the vital parts of our body and it influences the overall appearance of person. Hair is a protein filament that grows from follicles found in the dermis. Hair is one of the most important of our body that improves the overall appearance of person(1) Hair oil has more preferred as they promote hair growth, improve elegances of hair & prevent hair fall. Herbal cosmetics have growing demand in the world market and are in an invaluable gift of nature. There are wide range of herbal cosmetics products to satisfy beauty regime. Adding herb in the cosmetics is very safe for our skin. Herbal hair oil is not only moisturizing scalp but also reverse dry scalp and hair condition. It provides numerous (2)

The diverse natural substances are used withinside the components are: hibiscus , curry leaves ,Amla , Neem, shikakai , Coconut oil. All substances offer important vitamins along with vitamin, antioxidant, protein, terpenoids, and lots of important oils to hold ordinary feature of sebaceous glands. The formulated oil became evaluated for its organoleptic properties, acid value, saponification value, viscosity, pH etc. All the parameters had been determined to be accurate and with inside the standards

Natural Plant Use for Polyherbal Hair Oil -

A) Hibiscus Rosasinesis

Biological Sources-Dried leaves of hibiscus Rosasinesis.

Family -Malvaceae

Use-Petals were used to stimulate thicker hair growth and to prevent premature graying, hair loss and scalp disorders. It considered as a natural emollient hair conditioner and was used in hair washes, treatments and vinegar rinses for the hairPlant componentused Leaf (4)

B) Curry leaves

Biological source-Botanical call of the curry leaves is murraya koeniggi

Family -Rutaceae

Uses- prevent hair fall and graying of hairPlant component used -leaf(5)

C) Aloe -vera

Biological source-Aloe Vera dried leaves .

Family-Liliaceae

Uses--conditioner and moisturizing effect to remove dandruff, promote hair growth and nourish hair. The combination of aloe pulp and coconut oil is rich in vitamins and minerals. Used as hair and scalp oils, these oils result in healthy, strong, dandruff-free hair .(6)

D) Amla-

Biological Sources-Dried fruits of *Phyllanthus niruri*.

Family-Phyllanthaceae .

Use-Hair conditioner, treats scalp diseases and promotes hair growth. Amla is rich in vitamin C, tannins, phosphorus, iron, calcium and other minerals that nourish the hair and cause thick, black hair. Plant parts used-fruits.(7)

E) Shikakai-

Biological Sources-It consists of the fruit of the Acacia tree Linn.

Family –Leguminosae

Uses - It is used as a natural cleanser for sensitive scalps or to control dandruff. It promotes hair growth, strengthens hair roots and gives long beautiful hair.They are used in herbal hair oilPlant Parts The Used – Fruit (8)

F) Coconut oil-

Biological Source – Oil is derived from dried fruits of *Cocos nucifera*.

Family – Arecaceae

Uses – Nourishes of hair, moisturizing effect vehicle, stimulates hair growth by unclogging pores.Plant Parts Used – Fruit(9)

Material and Method

Collection of plant Material- Collection of Plant Materials The polyherbal hair oil was prepared.by collecting various plant materials like hibiscus rosa, curry leaves, alovera,Amlashikakai,from herbal garden and amla fruits were procured from local market

Formulation of Polyherbal Hair Oil

All herbal herbs are collected and dried in the shade . ShadeDrying under retains active ingredient. Therefore, Shading dry takes precedence over artificial dry. Dried raw pharmaceuticals were processed into coarse powder using a blender .All this powder is about medicine istransmitted through sieve number 80. Now, get flour is mixedTogether to get a homogeneous mixture. Now coconut oil and Aloe Vera pulp are added. This all-dry powder in mixwell Now contains boiled 15 min and filtered through muslin cloth. In the filtered water Coconut oil is added togive a finally prepare polyherbal hair oil and this is placed in an amber jar.(10)

Sr.no	Ingredient	Quantity
1	Hibiscus rosa	6 gm
2	Carry leaves	6 gm
3	Amla	6 gm
4	Shikakei	6 gm
5	Aloe vera	6 gm
6	Coconut oil	50

Table. 1 Formulation for poly HerbalOil.(10)

Evaluation Parameters

Evaluation of Herbal Hair Oil The formulated herbal oil was evaluated for parameters like pH, acid value, saponification value, viscosity.

Acid value:-

10ml 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,

Acid value = 5.61n/w (11)

Saponification value-

Accurately weigh 1 ml of oil into a 250 ml of conical flask and 10 ml of ethanol:ether mixture (2:1) was added. To this flask, 25 ml of 0.5 N alcoholic KOH was added. Keep the flask for 30 min, and the flask was cooled. The cooled solution was titrated against 0.5 N HCl using phenolphthalein as indicator. Similarly, the blank titration was performed without taking oil (sample). The amount of KOH in mg used was calculated.

Saponification value = 28.05*

(B-S)/W Where, S = ml of KOH required to neutralize the substance, B = ml of KOH required for blank, and W = Weight of the sample taken for the test (g).(12)

Ph-

pH: The pH of herbal hair oil was determined using pH meter.

Viscosity -

Viscosity: The viscosity was determined using Ostwald's viscometer. (13)

Conclusion

Overall, the formulated herbal oil provides many nourishing values to hair such as vitamins, minerals, and essential oils. The finished product is within the limits. In conclusion, oil is beneficial to prevent hair from damage and loss caused by pollution and dull hair. And provide an alternative source from hazardous chemicals (14)

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