

# Preparation and Evaluation of Herbal Oil

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**Abstract:** Herbal formulations always have lesser or no side effects comparatively with synthetic. The aim of present study involves preparation of herbal hair oil using the herbal ingredients like, Amla, Hibiscus, Bhringraj, Jatamansi, Raw garlic, Muskmelon seeds, Moringa, Curry leaves, Guava leaves, Papaya leaves, Methi, Mimosa Pudica and Spring onion. Based on the above observations, mixture of crude drugs was prepared in the form of herbal hair oil by boiling method. We have used five formulas using different herbal drugs and all the formulation are showing anti-hairfall property with some of other beneficial activities like anti-dandruff activity, improves blood circulation to the scalp and roots, reduce hair pigmentation, anti-fungal activity, reducing the whitening of the hair. The formulated herbal oil was evaluated by using various parameters such as Organoleptic properties, specific gravity, stability, viscosity, Acid value, pH etc. and the value obtained from it are found to be similar to that of the standard values like there is no sedimentation, no grittiness and shows satisfying organoleptic properties and the results were determined and are reported in this work. The goal of the present study is herbal have the effective formulation for the hair care or in hair treatment

**Keywords:** Herbal formulations

## I. INTRODUCTION

Hair plays an important role in human life. In India the traditional process is the preparation of hair oils put together with various hair growth promoting drugs. Indian women are known for their long, shiny and healthy hair, so it is not surprising that hair care features prominently in their self-care rituals. The Charaka Samhitha (the definitive book on Ayurvedic medicine) describes the importance of oiling the hair and scalp to maintain good hair health and prevent hair loss. The daily hair oiling was recommended with appropriate herbs filled to suit others constituents and this practice also continuous until today".

Growing demand for herbal cosmetics world market and are an invaluable gift of nature. There is a wide variety of herbal cosmetics products to satisfy the cosmetic regime. Adding herbs to cosmetics is very safe for our skin. Herbal hair oils are one of the most popular hair products. Not just herbal hair oil it hydrates the scalp but also reverses dry scalp and dry hair. It provides numerous basic nutrients needed to maintain the normal function of the sebaceous glands and support natural hair growth. The present work was carried out with this point in mind.

The hair oil preparations are included to treat various dandruff, hair fall process, split ends etc. The hair oil preparations are mainly used to cool the scalp for luxurious growth of hair in both men and women. Hair on the head is the first line of defense against solar UV radiation. Hair care products are nothing but the formulations that are used for adjusting the hair structure. Herbal cosmetics are widely used for their less adverse effects and the ingredients used are readily available. Hair is one of the vital parts of the body considered to be protective appendages on the body and accessory structure of the integument along with sebaceous glands, sweat glands and nails. The basic part of hair is bulb.

The nature of the oil it is non-sticky. Proper application of hair oil the most importantly, it has a cooling effect on the brain hair shine, hair softening, adds elasticity hair. Herbal hair oil not only moisturizes the scalp but also reverse the condition of dry scalp and dry hair. It provides a number of essential nutrients necessary to maintain the normal function of the sebaceous gland & supports normal hair growth. The plant parts used are highly enriched with flavonoids, polyphenols, saponins, tannin, vitamins, proteins and minerals, ricinoleic acid, etc. And these ingredients help in hair growth, and they also provide many benefits for hair.

**Herbs profile:**

**Tulsi :**

Scientific name – ocimum sanctum.

Family -lamiaceae

Parts used – leaves

Chemical constituents – eugenol, oleanolic acid, urosolic acid, Carvacrol, linalool.

Use – it prevents premature greying of hair and good for itchy scalp.

**Hibiscus**

Scientific name – hibiscus rosa.

Family – malvaceae.

Part used – flowers.

Chemical constituents- tannin, cardiac glycoside, flavonoids, terpenoids, oxalic acid , tartaric .

Use – Makes hair strong and promote hair growth, prevent hair fall.

**Fenugreek –**

Scientific name - Trigonell foenum graecum.

Family – legumes

Part used – seed

Chemical constituents – Fengurin B, alkaloid like neurine, betaine, carpine. Lactone is sotolon, poly phenolic compound is rhaponticin and Isovitexin

Use – reduce dandruff, promotes hair growth and shows antifungal activity.

**Neem**

Scientific name – azadirachta indica.

Family – meliaceae.

Parts used – leaves.

Chemical constituents – it contains nimbidin.

Use – it nourishes the hair and act as a natural conditioner, strengthens hair, soft hair.

**Curry leaves-**

Scientific name – murraya koenigii.

Family – Rutaceae

Part used – leaves.

Chemical constituents – beta carotene, elemol, terpinene, linalool, bismathanine, murrayannine, murrayzolinol.

Use – it promotes hair growth and strengthen the hair roots.

**Coconut oil –**

Scientific name – Cocos Nucifera

Family – Arecaceae

Parts used – juicy part of coconut.

Chemical constituents – lauric acid, capric acid myristic acid, capryllic acid, palmitic acid.

Use – used as vehicle promote hair growth and moisture hair follicle.

**Formulation Table :**

Sr.no.	Ingredients	Quantity taken
	Coconut oil	30 ml
	Tulsi leaves	7 gm
	Hibiscous flower	7 gm

	Fenugreek seeds	3 gm
	Neem leaves	4 gm
	Curry leaves	3 gm

**Table no.1**

**Observation Table:**

Sr.No.	Evaluation test	Standard	Observed
	Colour	Dark greenish brown	Dark brown
	odour	Characteristics	Characteristics
	Sensitivity	No irritation	No irritation
	Grittiness	Smooth	Smooth
	Sedimentation	No sedimentation	No sedimentation
	pH	6.8±0.012	6.76
	Viscosity	29.24 to 40.82	1,19 cp
	Acid value	0.68 – 1.86 mg KOH/g	13.8
	Specific gravity	0.865 – 0.933 g/cm	0.917 gm/ml

**Table no.2**

**II. RESULT**

Herbal hair oil is one of the most well recognized hair treatments. Herbal hair oil not only moisturizes scalp but also reverses dry scalp and dry hair condition. It provides numerous essential nutrients required to maintain normal function of sebaceous glands and promotes natural hair growth. The herbal hair oil was prepared from the above mentioned ingredients (Table 1) and it is subjected to the qualitative chemical analysis for identification of various plant constituents (Table 2). The various parameters like Colour, Odour, Specific gravity (density), pH, Viscosity Herbal hair oil is one of the most well recognized hair treatments. Herbal hair oil not only moisturizes scalp but also reverses dry scalp and dry hair condition. It provides numerous essential nutrients required to maintain normal function of sebaceous glands and promotes natural hair growth. The herbal hair oil was prepared from the above mentioned ingredients (Table 1) and it is subjected to the qualitative chemical analysis for identification of various plant constituents (Table 2). The various parameters like Colour, Odour, Specific gravity (density), pH, Viscosity Herbal hair oil is one of the most well recognized hair treatments. Herbal hair oil not only moisturizes scalp but also reverses dry scalp and dry hair condition. It provides numerous essential nutrients required to maintain normal function of sebaceous glands and promotes natural hair growth. The oil was prepared the various parameters like sensitivity test, viscosity, pH, irritation test, grittiness test, saponification value and acid value of herbal hair oil was evaluated. Hence, from the present investigation it was found that the formulated herbal hair oil has optimum standards and further standardization, and biological screening establishes the efficacy of formulated herbal hair oil.

**III. CONCLUSION**

This research provides guideline on the use of herbal ingredients on the preparation of Herbal Hair oil having minimal or no side effects. All the parameters showed that they are within the limits and since all the ingredients added have many advantages, this oil will help in maintaining good growth of hair, turning grey hair to black, protects from dandruff and results in lustrous looking hair. This research provides guideline on the use of herbal ingredients on the preparation of Herbal Hair oil having minimal or no side effects. All the parameters showed that they are within the limits and since all the ingredients added have many advantages, this oil will help in maintaining good growth of hair, turning grey hair to black, protects from dandruff and results in lustrous looking hair.

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