

Development and charecterization of poly herbal hair oil for the treatment of hairs

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Abstract: Hairs are one of the most important parts of the body for good appearance. Many people are having the different hair styles of hair for good looking and smartness but due to environmental polution & chemical many problems are associated in hair such as hair fall, hair thining, hair whitening ,dandruff in early age of people. For the hair growth and softness they are used various pharmaceuticals products and this chemical based formulation have many side effects on hair after long time uses. In the formulation of good and effective herbal hair oil there are various herbs used such as Neem, Castor oil, Coconut oil etc.The main purpose of formulation of herbal hair oil is to treat various hair related problems and keep hair healthy.

Keywords: Hair, Herbals, formulation

Introduction:

Hair is mainly made up of protein filaments called keratin. It is act as barrier to foreign particles. Hair is mainly made up of different structures. The hair follicle which is found in below skin and, the hair shaft which is found over the skin surface. Hair growth cycle completed in three steps.

- 1.Anagen.
2. Catagen.
3. Telogen (1)

The demand of herbal products are increased because they have less side effects Collection of plant materials:

The herbal hair oil are prepared by various herbal plants such as Neem, Amla, coconut oil, Henna, Aloe, Ashwagandha etc.

Amla:

Biological source: It is obtained from dried fruits of phyllanthus Emblica.

Family: phyllanthaceae **Uses:**

- 1.It is used in treatment of various hair related problem such as scalp ailments, hair conditioner, hair growth etc.
- (2)



Fig. Amla

Henna:

Biological source: It is collected from dried leaves of Lawsonia.

Family: Lythraceae.

Uses:

1. Used as hair dyes and hair conditioners (3)



Fig.Henna

Allium Cepa:

Biological source: mainly it is cultivated from the Allium species.

Family: Amarylidaceae.

Uses: The main property of it is prevention of hair loss and helpful in hair growth.(4)



Fig Allium Cepa (Onian)

Coconut oil:

Biological source: It is collected from the dried fruits of *Cocos nucifera*.

Family: Arecaceae **Uses:**

1. Used as hair moistures.
2. Used in hair growth replenishes.



Fig. coconut oil

Neem:

Biological source: It is obtained from dried leaves of *Azadirachta indica*.

Family: Meliaceae.

Uses: Used as antidandruff.

It having the property of antiseptic and antimicrobial.(5)



Fig. *Azadirachta Indica* (Neem)

Herbal substance required in formulation of hair oil:

SL. No.	Herbal Ingredients	Quantity (gm.)
1.	Amla	5 gm
2.	Henna	1 gm
3.	Allium Cepa	5 gm
4.	Coconut Oil	20 gm
5.	Neem	2.5 gm
6.	Garlic	2.5gm

Evaluation of herbal hair oil:

The evaluation of herbal hair oil was completed by the various parameters such as –PH, Specific gravity, Acid value, Saponification value and Iodine value.

Specific gravity: Specific gravity was mainly done by the pycnometer. In it mainly 10g of sample was taken in pycnometer. Then the apparatus was dry and 10g of oil sample was taken in pycnometer.

pH: The determination of herbal hair oil pH was done by the pH meter.

Saponification value: The identification of fat or oil was done by the saponification value. The requirement of mg of KOH to neutralized the fatty acids which are obtained from the one gram fat or oil is called saponification value.(6-7)

Conclusion: In this review paper we are discussed about the formulation of herbal hair oil to treat the various hair related problems. In it many types of herbal substance are used to promotes hair growth and reduce hair fall. At that time various allopathic drugs are used to treat hair problems but they have lot of side effects so avoid of it, herbal formulation are preferred easily.

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