Preparation and Evaluation of Herbal Hair Dye

Author: Thorat Sakshi Dipak Under Guidance: Miss. Shital Gosavi mam

Pravara Rural Education Society's, College of Pharmacy (For Women) Chincholi Tal- Sinnar, Dis- Nashik, 432103, Maharashtra, India

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ABSTRACT:

Hair is a very main part of human body. Hair playrole in maintaining human personality. The aim of our presentation is preparation and evaluation of herbal hair dye. This herbal hair dye involves different types of natural ingredients like henna powder (natural), onion powder, methi powder, amla powder, tea powder (naturally occurring from leaves of camellia taliensis), coffee powder, fresh alovera, hibiscus flowers. All the natural occurring ingredients provides allow you to colour your hairs without harmful chemicals like ammonia, PPD (used as a dye for dark colour shades and is made from coal), resorcinol and peroxide commonly found in marketed dyes. The herbal hair dyes makeyour hairs silky. The herbal hair dye contains very low side effects than the marketed hair dyes or the hair products. The herbal hair dyes is out of danger because it is available in nature and easy to available. Hair dye products are used for colouring to the hair. This natural hair dyes contains plant base ingredients rather than harmful chemicals. Hair dyes cause hair loss in some peoples but the natural hair dyes do not contain harmful chemicals, ingredients and hence they do not cause any hair loss or side effect to the hairs.

Keywords: Herbal hair dye, preparation, natural powders, hair colour.

I. INTRODUCTION:

Hair is most attractive part of our human body. Hair is a keratinous filament growing out of the epidermis. It is primary made of dead keratinized cells. Hair colouring is the process of changing the hair colour. Hair dyes can cause hair loss in some peoples and also doctors advise women to avoid their hair dye during pregnancy. The prepared hair dye contains all the natural powders or ingredients they provide natural colour to the hair. This herbal hair dye also acts as hair growth supporter and nourishment to the hairs.

Types Of Hair Colours:

1. Permanent Hair Dyes



2. Semipermanent Hair Colour



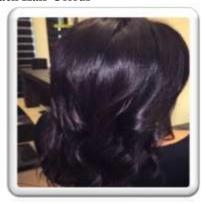
3. Global Hair Colour





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4. Black Hair Colour



Hair Dves:

Hair dyes are based product proposed to colour the hairs. Hair dyes are help to hair protects from heat. The main purpose of hair dyes to cover the grey and white hair, to alter hair to create a specific look to the human. Different types of dyes may be included in hair dyes products. Hair dyes are the preparations which are used for colouring to the hairs. Hair colouring can be done professionally by a hairdresser at home. Hair colouring is a very popular in women. Hair dyeing is a process in which dye is combined on the fabric by chemicals to make the fabric have a certain colour. Hair dyes and hair colours are the products proposed to impart colour to the hair. The herbal hair dyes not only colouring to the hairs but also supports to the hair growth and stop loss of hairs. Herbal hair dyes provide a specific and natural colour to the hairs.

The presentation was purposed to prepare and evaluate herbal hair dye containing naturally occurring powders and ingredients such as, henna powder, onion powder, methi powder, amla powder, tea powder, coffee powder, fresh alovera, hibiscus leaves etc. These are the naturally occurring ingredients are found in nature. These ingredients are helps to a proper hair colour, growth of hair and also helps to hair scalp protector. This herbal hair dye is very beneficial for the human hair because they have less side effect than the marked hair dyes products or the cosmetics.

Colour Your Hairsat Home Procedure:

- 1. Brush your hairs.
- 2. Wearing the hand gloves and mix the dye properly.
- 3. Coat the hairline and ears to avoid enter the
- 4. Apply accurately dye on the roots of hairs.
- 5. After apply the dye on full length of hair.

- 6. Rinse your hairs properly.
- 7. Herbal dye is applied to your hairs.

Natural ingredients and procedure for the preparation and evaluation of herbal hair dye: Different types of natural substances used as:

1. Henna Powder:



Lawsonia inermis
Lythraceae
Cosmetics
Enhance brown & auburn tones.

2. Onion Powder:





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Botanical Name	Allium cepa
Family	Amaryllidaceae
Used	Formation of collagen tissue in scalp
Role	It turns grey hair into golden brown

Botanical Name	Emblica officinalis gaerth
Family	Phyllanthus emblica
Used	Raise the levels of sebum production
Role	Help darken hair & prevents greying

3. Methi Powder:



Botanical Name	Trigonella foenum graecum
Family	Fabaceae
Used	Circulation to the scalp
Role	Prevents hair shedding

5. Tea Powder:



Botanical Name	Camellia sinensis
Family	Theaceae
Used	Provides vitamin E and iron
Role	Enhance hair colour

4. Amla Powder:



6. Coffee Powder:





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Botanical Name	Coffea genus
Family	Rubiaceae
Used	Help in to reduce hair loss
Role	Acts like a nature dye

7. Fresh Alovera:



Botanical Name	Aloe barbadnesis miller
Family	Asphodelaceae
Used	Improved damaged, dry hair
Role	Enhance colour retention

8. Hibiscus Flowers:



Botanical Name	Hibiscus rosa-sinensis
Family	Mallows
Used	Treating loss of appetite
Role	Helps with premature greying

Formulation:

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Natural Ingredients	Quantity (%)
Henna Powder	23 %
Onion Powder	12 %
Methi Powder	8 %
Amla Powder	16 %
Tea Powder	19 %
Coffee powder	6 %
Fresh Alovera	5 %
Hibiscus Flowers	4 %
Distilled water	7 %

Procedure For Preparation of Herbal Hair Dye:

- 1. Weigh required quantity of henna powder in clean plate and heat it on gas at low flame.
- **2.** After heating add required quantity of onion powder, methi powder, amla powder with stirring.
- **3.** After above powders are mix with each other then heat again it on medium flame until the greenish colour obtained.
- **4.** After greenish colour obtained, then add required quantity of alovera and hibiscus flower in it.
- **5.** Take another flask add required quantity of tea powder and coffee powder with adding required quantity of water to make solution.
- **6.** Add the above solution into the powders, and stir it properly until the smooth paste like powder appears.
- 7. Store the solution at dry place for 2 hours. & after 2 hours our herbal hair dye is formulated.

Evaluations:

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Parameters	Result
Colour	Greenish black
Odour	Fishy like odour
Texture	Fine
Appearance	Powder
PH	6.8
Bulk density	0.29
Tapped density	0.389
Smoothness	Smooth powder

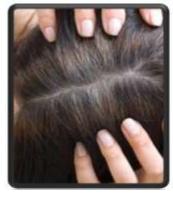


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Angle of repose	1.01
Swelling	Negative
Irritation	Negative
Redness	Negative

Evaluation proofs:

Before applying hair dye





After dye to hairs



II. CONCLUSION:

Successfully the prepared herbal hair dye provides a colour to hairs as well as promotes hair growth. Herbal hair dye not only colours to the hairs but also maintains good lifestyle of the hairs. It contains various types of natural ingredients that enhance the colour retention. Herbal hair dye is used to prevent hair loss and acts like a nature dye. This herbal hair dye helps in darken hair colour and prevents greying. The formulation is very beneficial and safe for the human hair because values of the evaluation are similar to the normal values of the hair dyes. As a result it can be concluded that the herbal hair dye is suitable for human hairs and it veryuseful for hairs than the marketed hair dyes.

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