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Research Article

FORMULATION, DEVELOPMENT AND EVALUATION OF HERBAL POWDER SHAMPOO

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ABSTRACT

Now a day's synthetic chemicals are produces many harmful effects like irritation on skin, dryness, sometimes produce pimples etc. so that's why we selected herbal products for making herbal powder shampoo. In the present research work herbal powder shampoo by using methi seeds is good ingredient for smoothing hair, Amla used for strengthening hair or thickness of hair etc. Present study deals with the formulation, development and evaluation of herbal powder shampoo that was successfully prepared and evaluation parameter of this formulation was passed. This formulation is cheapest and there are no side effects, it is easily apply on the hair.

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INTRODUCTION:

Cosmetics Cosmetics also known as make-up are substances or products used to enhance the appearance or fragrance of the body. Many cosmetics products are used to design for applying on the face, hair and other essential parts of body. In the 21st century, women generally use more cosmetics than men. They are generally mixtures of chemical compounds and some obtained from natural sources (such as coconutoil, etc.). Common cosmetics such as lipstick, mascara, eye shadow, foundation, rouge, skin cleansers, skin lotions, shampoo, hair styling products (gel, hair spray, etc.), perfumes etc^{1,2}.

Shampoo Shampoo is a care product of hair and used for cleaning hair. Shampooare used by applying it to wet hair, massaging product into the hair, and then rinsing it. Some users may follow a shampoo with the use of hair conditioner. The goal of using shampoo is to remove the unwanted dirt, dandruff on the hair without stripping out. Shampoo is generally made by combining a surfactant, most often sodium lauryl sulfate or sodium laureth sulfate, with a co-surfactant, most often cocamidopropyl betaine in water. Some special features of shampoos are available in market removing dandruff, color-treated hair; reduce gluten or wheat allergies, an interest in using an "all-natural", "organic", "botanical" or "plant-derived" product, for infants as well as young children ("baby shampoo" is less irritating). Shampoos are also use intended for animals

that may contain insecticides or other medications to treat skin conditions or parasite infestations such as fleas^{3,4}.

Ideal characteristics of shampoo

- Should effectively and completely remove the dust, excessive sebum.
- Should effectively wash hair.
- Should produce a good amount of foam
- The shampoo should be easily removed by rinsing with water.
- Should leave the hair non dry, soft, lustrous with good, manageability.
- Should impart a pleasant fragrance to the hair.
- Should not make the hand rough and chapped.
- Should not have any side effects or cause irritation to skin or eye.

MATERIALS AND METHODS:

Materials: Methi Seed Powder, Neem Powder, Amla Powder, Orange Powder, Reetha Powder, Ratanjot Powder, Peppermint.

Method: Sieving and Mixing.

Pre Formulation:

Formulation of herbal powder shampoo⁵: After many trials and three formulations viz., F1, F2 & F3 was formulated. All different formulas prepared in different quantity as shown in table.

Table 1: Formulation of herbal powder shampoo

S.No.	Ingredient	F1	F2	F3
1	Methi Seeds Powder	0.80 gm	0.50 gm	0.30 gm
2	Neem Powder	0.80 gm	0.50 gm	0.5 gm
3	Amla Powder	2.2 gm	2.2 gm	1.2 gm
4	Orange Powder	1.5 gm	1.5 gm	1.0 gm
5	Reetha Powder	0.80 gm	0.50 gm	0.50 gm
6	Ratanjot Powder	1.7 gm	1.5 gm	1.0 gm
7	Peppermint	2.2 gm	3.3 gm	5.5 gm

RESULTS AND DISCUSSION:

Now a day's Medicinal plants used in the formulation of herbal shampoo were found in rich source of novel drugs. This ingredients are obtained from plants such as Methi, Reetha, Neem, Amla, Chinrose, Orange, Peppermint, Ratanjot and there are no cause side effects and has been reported for hair growth and conditioning. All quality control parameters were checked and parameters give a favorable result.

Table 2: Physical appearance

S.No.	Parameters	Result
1.	Colour	Yellowish green
2.	Odour	Slight pleasant
3.	Taste	Characteristics
4.	Texture	Fine smooth

Table 3: Different evaluation parameter

S.N.	Parameters	Result
1.	Particle size	20-25um
2.	Angle of repose	32°
3.	Bulk density	0.8gm/cc
4.	Tapped density	0.9gm/cc
5.	Carr's index	12
6.	Hausner ratio	1.13
7.	pH	5.6
8.	Foaming property	Good Foam
9.	Nature of hair after wash	Soft and Smooth
10.	Dirt Dispersion	Moderate

The research work shows that the active ingredients of these drugs incorporated in shampoo give more stable and good aesthetic appeal. The pH of the shampoo has been shown to be important for improving and enhancing the qualities of hair, minimizing the irritation to the eyes and stabilizing the ecological balance of the scalp. The current trend to promote shampoo of lower pH is one of the minimizing damage of the hair. After completion of formulation all parameter done and result were reported. This formulation is cheapest and there are no cause side effects, it is easily apply on the hair and easily homemade formulation.

CONCLUSION:

In the present research work the herbal powder shampoo by using methi seeds is good ingredient for smoothing hair. We formulated a herbal powder shampoo by using plant extracts which are commonly used traditionally lauded for their hair cleansing action.

Globalization is the need of today and the world market will open for all by 2005. The world is also moving towards herbal medicines for health care, health foods and for cosmetic purposes including hair preparations. India is rich heritage for cultivation and production of herbal medicines due to its diversified climatic conditions. It is possible that herbal powder shampoo, although better in performance and safer than synthetic ones will be popular with the consumers.

After whole studies found that it is good for hair smoothing, strength, conditioning and shining also provided better effect for hair purpose.

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