



Formulation And Evaluation Of Herbal Shampoo.

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ABSTRACT

The aim of this present, formulation and evaluation of herbal shampoo and to assess to physiochemical function that emphasis on safety, efficacy, eliminating harmful ingredient, and substitute with safe natural ingredient. The formulation of shampoo using the extracts of Drumstick, hibiscus, jatamasi, Triphala, vayambu, Ritha, Alovera, Shikakaiin Bhringraj, Senna, soap Nuts different proportion evaluation of Organolaptic, physiochemical and performance tests in terms of wetting time test, ph, solid contents, surface tension, dirt dispersion, foam stability, and viscosity was performed. [1, 2]

The created clearance was clear and good appealing, it demonstrated good froth stability, detergency, good cleansing, Small bubble size, low surface strain, and execution of good conditioning. The physiochemical evaluation of the formulated shampoo showed ideal result, however, to improve its quality product performance, and safety, further development was required. In day to day life hair care is of prime importance. A good care of hair can be taken by use of different cosmetic products like hair oil, hair shampoo, hair gel, hair serum, hair cream etc. For cleansing and nourishing purpose shampoo are widely used as many people as it contains cleansing agents, but with this many chemicals are also involved which may damage health of hair by continues use. [1]

Keyword : Herbal shampoo, Ingredient, formulation, hair care, Herbal shampoo patanjali

Introduction

Shampoo are most probably used as cosmetic it is hair care product that is use for cleaning scalp and hair in our daily life. Shampoo are most likely utilized as beautifying agents and are viscous solution are detergents containing additives preservatives and activities and active ingredients. It is

usually applied on wet hair massaging into the hair, and cleansed by rinsing with water the purpose of using shampoo is to remove dirt that is build upon the hair without stripping out much of the sebum. In synthetic shampoo, surfactant, (synthetic) are added mainly for their cleansing and foaming property but the continuous use of these surfactant leads to serious effect such as eyes irritation, scalp irritation, loss of hair, and dryness of hair Alternative to synthetic shampoo we can use. It is desirable that whatever any the disease was condition be (dermatitis, alopecia, psoriasis) the hair stands are kept aesthetically presentable preserving it's softness. Shampoo are typically composed of 10-30 ingredient although product with as few as four ingredients are available .

The product are grouped into:-

1. Cleansing agents
2. Additives that contribute to the stability and comfort of the product
3. Conditioning agents, intended to impart softness and glass, to reduce flyaway and to enhance, disentangling facility,
4. And special are ingredients designed to treat specific problems such as dandruff and greasy hair [1]

Now a days many synthetic, Herbal medicated and non medicated Shampoo are available in the market but popularity of herbal shampoo among consumers is on rise because of their belief that these products being of natural origin are safe and free from side effect herbal. Formulation considered as Alternative to synthetic shampoo but formulating cosmetic using completely natural raw material is a difficult task. There are large number of Medicinal plant. Which are reported to have beneficial effects on hair and are commonly used in formulation of shampoo.

BENEFITS OF HERBAL SHAMPOO :-

1. More shine.
2. Less hair loss.
3. Long lasting colure.
4. Stronger and More fortified hair
5. All natural. No chemical.
6. Won't irritate skin or scalp.
7. Keep healthy natural oils .

FANCTION OF HERBAL SHAMPOO:-

1. Lubrication.
2. Conditioning.
3. Hair growth.
4. Maintain of hair colure.
5. Medication.

DESIRED PROPERTY OF HERBAL SHAMPOO :-

1. Ease of application.
2. Removal of more debris.
3. Easy wet combing.
4. Fragrance.
5. Low level of irritation.
6. Well preserved.
7. Good stability

ADVANTAGES OF HERBAL SHAMPOO:-

1. Pure and organic ingredients.
2. Free Frome side effect.
3. No surfactants EG:- SLS
4. No synthetic additives.
5. No animal testing.
6. Earth and skin friendly.
7. No petroleum base ingredients.

JATAMANSI:-

1. **Common name :-** JATAMANSI
2. **Plant name:-** VALERIANACEAE
3. **Chemical constituent:-** SESQUITERPENES, COUMARINS
4. **Uses:-** RHIZOME EXTRACT IS USED IN HAIR TONICS TO PROMOT GROWTH
5. **Reference:-**63-65
6. **RF value:-**0.76

JATAMANSI consists of dried rhizomes of NARDOSTACHYS JATAMANSI belonging to the family VALERIANACEAE .It contain volatile OIL, RESIN, STARCH, AND JATAMANSI acid and ketones ,as well as JATAMANSONE and NARDSTACHNONE. JATAMANSI stimulates fibroblast to produce more collagen and elastic FIBRES increase skin elasticity and decrease wrinkle formation (ageing)[21]

JATAMANSI :-

- A. Hair growth.
- B. Hair thickness.
- C. Hair darkening.
- D. Hair straight, Hair shine, Hair health.

E.JATAMANSI can help hair grow by improving blood Circulation to the Scalp.



JATAMANSI PLANT

BENEFITS OF JATAMANSI :-

- A.** Hair growth.
- B.** Hair loss.
- C.** Dandruff protection.
- D.** Darkening hair.
- E.** Hair texture.
- F.** Sebum balance.



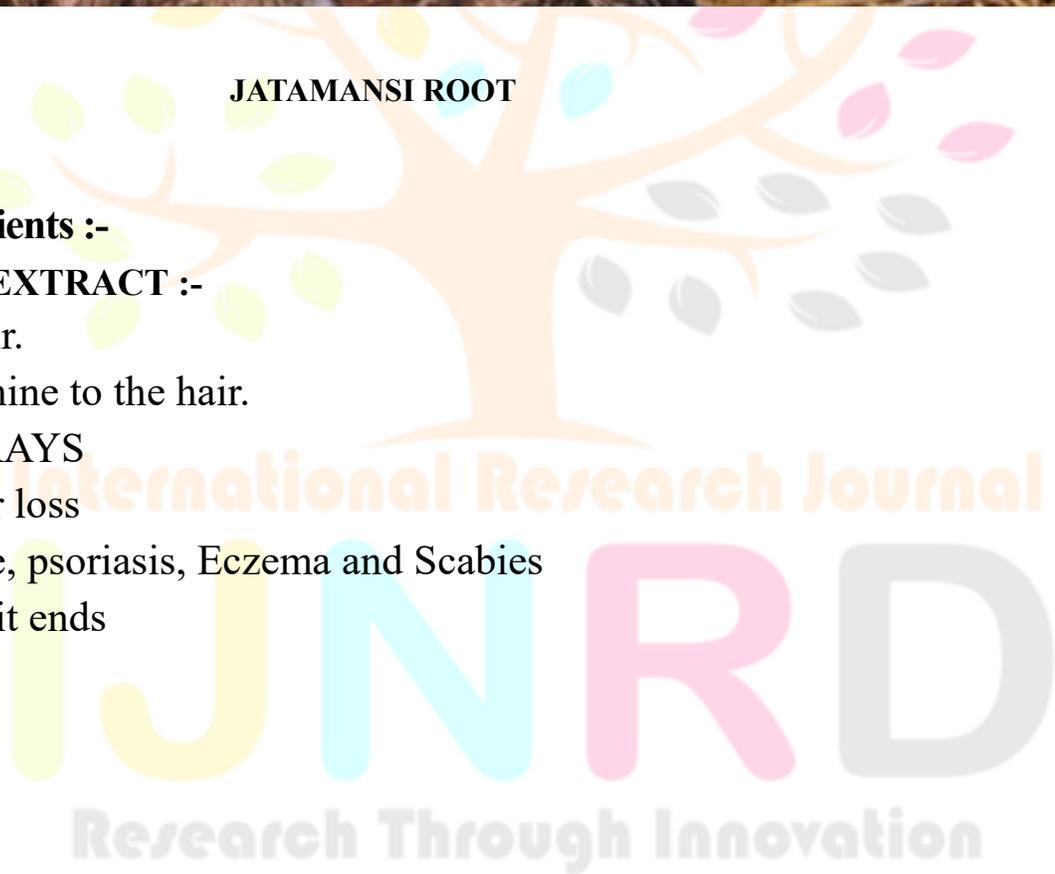


JATAMANSI ROOT

Uses of Ingredients :-

- **SHIKAKAI EXTRACT :-**

1. Cleanses hair.
2. Add more shine to the hair.
3. Prevents GRAYS
4. CRUBS hair loss
5. Prevents lice, psoriasis, Eczema and Scabies
6. Prevents split ends





SHIKAKAI

• **SOAP NUTS EXTRACT :-**

1. Stops hair fall.
2. Prevents dandruff.
3. Fight against scalp infection
4. Cleaning basically anything.
5. Washing clothes.
6. Washing dishes.
7. Washing clothes nappies.
8. As a liquid soap
9. Cleaning and Shining ornaments.
10. Household cleaner.
11. Skin cleanser.
12. Pet shampoo
13. Car wash.



Soap nuts

▪ AMLA EXTRACT :-

1. Strengthen the Scalp and hair
2. Reduce premature pigment loss from hair or greying.
3. Stimulate hair growth.
4. Reduce hair loss.



AMLA

▪ **HIBISCUS :-**

1. Stimulate hair growth and lost hair volume and CUSTER over the years.
2. Conditions hair
3. Prevents Baldness.
4. Treat dandruff and ITCHY scalp.
5. Prevent premature greying.



HIBISCUS

▪ **AIOEVERA :-**

1. Calms an ITCHY scalp.
2. Deep cleans oily hairs.
3. Strengthens.
4. Smooth natural curls
5. Detangle hair.
6. Reduce FRIZZINESS.
7. Skincare.
8. Digestive problems.
9. Blood sugar control.

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AIOEVERA

▪ SENNA EXTRACT :-

1. Strong hair
2. Great conditioner.
3. Combats hair loss



BHRINGRAJ EXTRACT:-

1. Treat boldness and helps in growth of hair.
2. Makes hair Lustrous.



HIRDA EXTRACT :-



1. Promotes hair growth.
2. Controls excess oil
3. Keeps the Scalp clean.

4. Controls dandruff
5. May prevent premature hair GRAYING and hair loss.
6. Improves blood flow to the scalp

BAHEDA EXTRACT:-

1. Help in weight loss.
2. Prevents hair loss
3. Soothe sore throat
4. Dental problems .
5. Prevents cough and cold .
6. Remove Acne and ulcers.
7. Helpful in constipation.
8. Treat Indigestion.
9. Prevents hair loss



▪ DRIED ROSE PETALS :-

1. Hair growth (vitamin A,B3,C and E)
2. Scalp health
3. Dandruff
4. Dry hair
5. Frizzy hair

6. Hair shine and volume
7. Blood circulation
8. Anti inflammatory
9. Rose oil
10. Rose water



Dried Rose petals

• **VAYAMBU EXTRACT:-**

1. Hair straight
2. Dandruff
3. Lice
4. **Relaxing mind** and improve sleep
5. Improving digestion
6. Boosting immunity
7. Treating rashes

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VAYAMBU

❖ DRUGS NAME :-

1. JATAMANSI:-

- **Family name**-- NARDOSTACHYS JATAMANSI VALERIANACEAE
- **Parts (uses)**-RHIZOME EXTRACT IS used in hair tonics to promote growth.
- **Medicinal uses**— hair growth and AYURVEDIC uses

2. SHIKAKAI EXTRACT :-

- **Family name**- ACACI
- **Parts uses** - fruits
- **Medicinal uses**— hair growth
- **Category** – Antifungal, curbs dandruff

3. SOAP NUTS :-

- **Family name**- SAPINDUSMUKOROSI
- **Parts (uses)**-fruits
- **Medicinal uses** – Moisturizing agent
- **Category** -Soapberry

4. AMLA :-

- **Family name**- PHYLLANTHUS EMBLICA
- **Parts (uses)**- fruits
- **Medicinal uses** – Moisturizing agent
- **Category** – PHYLLANTHUS

5. HIBISCU :-

- **Family name**- rasa SINESIS

- **Parts uses-** flower
- **Medicinal uses–** Conditioning agent
- **Category –** Conditioning agent

6. ALOEVERA :-

- **Family name-** Aloe BARBADENSIS
- **Parts uses –** pulp
- **Medicinal uses–** Smoothing agent
- **Category –** smooth

7. SENNA:-

- **Family name-** SESAMUM indicium
- **Parts uses –** leaves
- **Medicinal uses –** treat constipation
- **Category –** stimulant laxatives

8. BHRINGRAJ:-

- **Family name-** SESAMUM indicium
- **Parts uses –** leaves
- **Medicinal uses –** treat Constipation
- **Category-** stimulant laxative

9. HIRDA:-

- **Family name-** ASTERACEAE

- **Parts uses-** leaves, flower
- **Medicinal uses –** AYURVEDIC
- **Category –** ASTERACEAE

10. BAHEDA:-

- **Family name-** COMBRETACEAE
- **Parts name –** Fruits
- **Medicinal uses –** AYURVEDIC
- **Category -**TERMINLIA BELLIRICA

11. DRIED ROSE PETALS:-

- **Family name-** ROSA CENTTFOLIA
- **Parts uses-** flower petals
- **Medicinal uses –** skincare, AYURVEDIC
- **Category –** _

12. VAYAMBU:-

- **Family name-** ACORUS CALAMUS
- **Parts uses -** RHIZOMES
- **Medicinal uses –** digestive health, HAIR

- **Category - ACORACEAE**

JATAMANSI HAIR SHAMPOO :-

➤ **NARDOSTACHYS JATAMANSI**

Alkaloids –Absent

Flavonoids –present

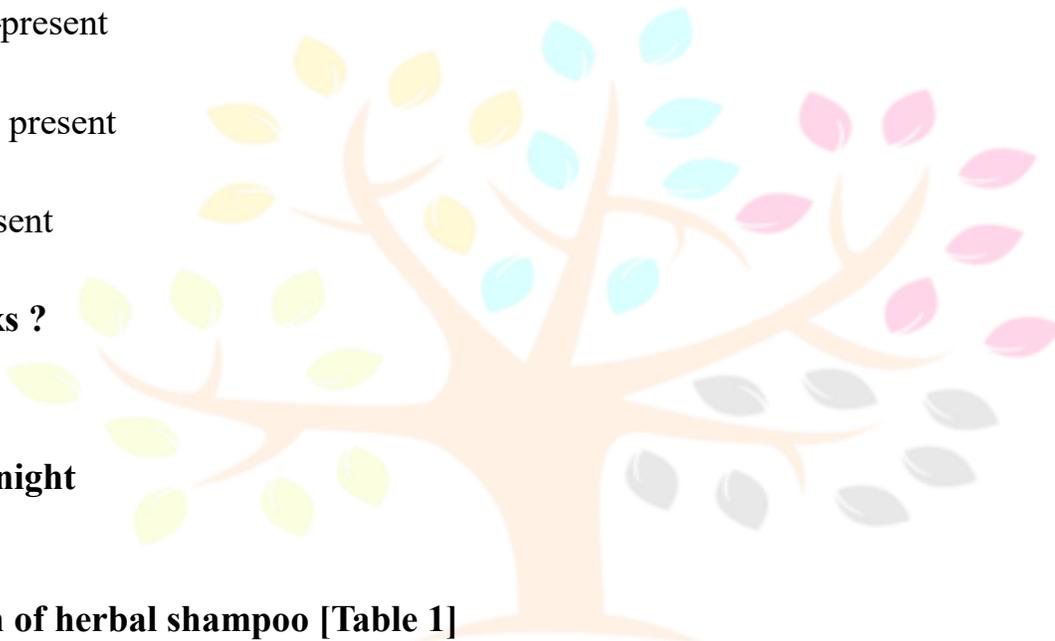
SAPONINS- present

Tannins- Absent

How it Works ?

➤ **Soak overnight**

❖ **Extraction of herbal shampoo [Table 1]**



Sr. No.	Drugs Name	Parts	quantity for
1.	JATAMANSI	RHIZOMES	25%
2.	SHIKAKAI	Pods.	22%
3.	Soap nuts	Fruit.	20%
4.	AMLA	fruit	25%
5.	HIBISCUS	flower	12%
6.	ALOEVERA	leaves	07%
7.	SENNA	leaves	07%
8.	BHRINGRAJ	leaves	08%
9.	HIRDA	fruits	20%
10 .	BAHEDA.	Fruits	20%
11.	DRIED Rose.	Petals	07%
12.	VAYAMBU	Root.	0.5%

➤ **Formulation of Herbal Shampoo :-**

Material required	Quantity
JATAMANSI.	0.5 g.
SHIKAKAI.	0.5g.
SOAP NUTS.	0.5g.
AMLA.	0.5g.
HIBISCUS.	0.5 g.
ALOEVERA.	01g .
SENNA.	01g.
BHRINGRAJ.	01g.
HIRDA.	0.5 g.
BAHEDA.	0.5g.
DRIED ROSE PETALS.	01g.
VAYAMBU	0.5g

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1 JATAMANSI HERBAL SHAMPOO :-



1. Evaluation of herbal shampoo:-

The prepared formulation was evaluated for product performance which includes organoleptic character ,pH , physicochemical characterization and for solid content. To guarantee the nature of the items, particular tests were performed for surface tension, ,foam stability, and wetting time using standard protocol.

- **Visual Assessment** – The prepared. Formulation was assessed for Colour ,Clarity , ODOR, and froth content.
- **pH determination** – the pH of the prepared Herbal shampoo in distilled water (10%v/v) was evaluated by means of pH ANALYZER at room temperature [12]

- **Determination of solid content percentage** – the percentage of solid substance was determined by weighing about 4g of shampoo in a dry, clean and evaporated dish. To confirm the items, particular tests were performed for surface tension wetting time FOAM volume, FOAM stability using standard protocol

LMITATION OF HERBAL SHAMPOO:-

- 1.Natural products effect product uniformity, Quality control.
- 2.seasonal variation of plan constituent
3. Less stable, so preservatives should be added
4. Vary in consistency from batch to batch.

CONCLUSION :-

The present study was point out with the object of preparing the herbal shampoo that reduce hair loss promote growth and straight of hair . Herbal shampoo was formulated with the aqueous extract of medicinal plants that are commonly used for cleansing hai . study involves the use of JATAMANSI, and other plant extracts instead of synthetic Use of Conditioning agent (Synthetic) reduce the protein or hair loss

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