

# Herbal Anti Dandruff Shampoo

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**Abstract:** *The aim of the study is to formulate and evaluate herbal Anti dandruff shampoo containing natural ingredients with an emphasis on safety and efficacy. It clears dirt, dandruff, promotes hair growth, luster, strengthens and darkens the hair. Majority of ingredients in the shampoos are chemicals and hence have been under severe attack due to its potential risk of side effects with its usage. The main objective is to study how to eliminate harmful synthetic ingredients from antidandruff shampoo formulation and substitute them with safe natural ingredients for example onion and hibiscus. An attempt has been made to combine modern formulation technology into a formula based on natural ingredients. The shampoo was prepared by taking the extracts of Onion and Hibiscus in different proportions.*

**Keywords:** *natural ingredients*

## I. INTRODUCTION

Dandruff is the major cosmetic problem and great public concern both in developed and developing countries. The word dandruff is combination of „tan“ meaning tetter“ and „drof“ meaning „dirty“.

Dandruff is a chronic scalp condition leading to scaling, itching, redness of scalp by shedding epidermal cells.

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• Causes Of Dandruff:

• Dry skin

• Irritated, Oily skin

• Malassezia-yeast like fungus

• Other skin condition

A. Eczema

B. Psoriasis

C. Seborrheic dermatitis

### Classification of herbal Anti-dandruff shampoo:

Depending upon the symptoms the dandruffs classified into two main types

A. Dry dandruff.

B. Oily dandruff.

A) Dry dandruff :-

It is also called as pityriasis simplex. characterize by excessive formation of minute scales which accumulate on the scalp area. In this type of dandruff there is no excessive hair loss. The inflammation on the skin is not observed.

The scales are first found in middle of the scalp and then spread to frontal, parietal and occipital areas. In this condition the hair are most commonly symptom in these condition.

B) Oily dandruff :-

It is also called as pityriasis steatoides. It arrives on the scalp with sebum production. It is mostly found in young men following puberty.



Inflammation of variable intensity developed on the scalp along with oily scales of dirty yellow colour .

Hair fall is most commonly found in this condition. The most common site effected by this type of dandruff scalp, behind the ears , over breastbone, armpits.

• Treatment :

1. Follow a healthy diet.
2. Avoid stress.
3. Shampoo use a combination of special ingredients to control dandruff.
4. Regular cleansing with shampoo.

USE TO REMOVE THE DANDRUFF ?

1. Tea tree oil
2. Onion peel
3. Lemongrass oil
4. Aloe vera gel
5. heena (Lawsonia inermis)
6. Fenugreek
7. Hibiscus leaves, and flower
8. Coconut oil
9. Sandalwood
10. Tulsi ( holy basli )
11. Dietary changes

What is mean by herbal shampoo ?

A shampoo is a preparation of a surfactant in a suitable form –liquid ,solid or powder which when used under the specific condition will, remove surface grase, dirt .from the hair shaft andscalp without adversely affecting the user.

Herbal shampoo are made out of pure and organic ingredient and there are no synthetic additives or surfactants and are free of any side effect . this shampoo are tested on animal, unlike synthetic shampoo brands.

Herbal shampoo containing suitable ingredient such as hibiscus, onion, reetha, acacia concinna, aloe vera , bhringraj leaves, henna ,neem oil, lemon grass oil, etc.

Ideal properties of herbal shampoo:-

1. Evaluation of herbal shampoo.
2. Physical appearance.
3. Determine percent of solids contents.
4. Rheological evaluation.
5. Dirt dispersion.

#### **ADVANTAGES OF HERBAL ANTI DANDRUFF SHAMPOO:**

Cleansing properties

- Treating scalp conditions
- Treatment for dry scalp
- Treatment for hair loss.
- Treatment for greasing or oily hair.
- Relieves itch and irritation
- Repairs damaged hair.
- Shampoo keeps hair silky or smooth.
- It does not cause irritation to the eyes.

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- Herbal shampoo are biodegradable and earth friendly.
- Oil balance is achieved by using herbal shampoo

### **Literature survey**

1. Mrs.K Sravanthi, N Kavitha ,K Sowmya, S Naazneen :-

(may-june 2019) basic concept and many ingredient are use to like. Tulsi , henna, neem, lemon, shikakai, hibiscus, onion are commonly used plants in shampoo formulation of which some have anti-dandruff activity. Shampoo is a hair care product, usually in the form of a viscous liquid used to clean hair. The purpose of using shampoo is to remove unwanted buildup between the hair without removing too much sebum to get the hair of control.

2. Surbhi Rathi, Dr. Kshama Murarkar, Dr. Anita Chandak :-

(Dec-2018) Basic concept and many herbal product are used to the anti-dandruff shampoo. In these articles shows the natural herbal product against the dandruff.

Staphylococci are widespread in nature, although they are mainly found on the scalp. Onion is highly valued for its therapeutic properties and recognized as an important medicinal plant for many years ago.

3. Kalpana Patidar Asian Journal of Pharmaceutics (AJP) 12 (03), 2018.:-

Basic Concept, Benefits, and Challenges Kalpana Patidar Journal of Pharmaceutics (AJP) 12 (03), 2018. The objective of this review article is to provide information about various herbs used in dandruff treatment along with causes and remedies of dandruff formation.

This article also highlights the benefits of herbal shampoo over synthetic shampoos. The hair is an integral part of the way to feel about the self-appearance, and when the hairs are lost, it can be damaging to self-esteem and self-confidence.

One common reason is dandruff; a very common scalp disorder with high prevalence in population is caused by numerous host factors in conjunction with Malassezia furfur.

### **Aim And Objective**

• Aim: Formulation and Evaluation of herbal Anti-dandruff Shampoo

• Objective:-

1. To formulate anti-dandruff shampoo by using ingredients such as Onion and Hibiscus.
2. Evaluation of herbal anti-dandruff shampoo for Appearance, Percentage solid content , pH, Foam volume and antimicrobial activity against Staphylococcus aureus

Formulation of herbal Shampoo :-

- Water
- Surfactant
- Thickness
- Conditioning agent
- Preservative
- Anti -dandruff agent
- pH-buffer.

Material use in preparing herbal shampoo

• Hibiscus:

- Family:- Malvaceae
- Order:- Malvales
- Kingdom:- plantae

Hibiscus rosa-sinensis, malvaceae, The Hibiscus nourishes the hair follicles, softens the hair and makes it more manageable. To reap the nourishing benefits of Hibiscus for your hair, you can use conditioners that have



Hibiscus as the key ingredient. flowers and leaves contain mucilage and plant proteins that helps in treatment of anti dandruff and hair loss.

Advantages of hibiscus

- Stop hair loss
- Make your hair look healthy and lustrous
- Prevent premature graying.
- Thicken hair and add volume.
- Treat dandruff.
- Condition against frizz
- Help to moisturizing
- Prevent split ends.
- Helps to hair growth.
- Nourishes hair for smooth and shiny look
- Control breakage
- Shiny hair
- Help to remove dandruff.



Onion :

- Family :-Amaryllidaceae,liliaceae.
- Order :-Asparagales.
- Kingdom :-Plantae

Allium cepa; belongs to family liliaceae , onion and other : aromatic plant belong to the genus allium in the lily family. In fact, they are commonly referred to as “the stinking lilies” for their distinctive aromatic properties. there is a wide range of species within the genus allium. They include: onion, leeks, garlic, chives, shallots. onion also known as the bulb onion or common onion, is a vegetable that is the most wide species of the genus allium. The shallot is a botanical variety of the onion which is classified as a separate species until 2010.

#### **ADVANTAGES OF ONION**

Antibacterial agent

- Stimulate healthy hair growth.
- Sulphur content prevent hair breakage.
- Regrowth of hair follicles.
- Smoothing effect on hair
- Help to removing the dandruff



**Figure: Onion**

Ingredients	Quantity
Hibiscus	30 ml
Onion Extract	20 ml
Burdock root	15 ml
Aleo veer gel	40 ml
Tulsi Extract	15 ml
Glycerien	2 ml
Steric acid	To adjust pH



Burdock Root ( Actium lappa )

Family :- Asteraceae

Order :- Asterales

Kingdom :- plantae

Improve hair growth & prevention permanent graying

Reduce scalp irritation & promotes hair growth

Burdock root has been used traditionally to treat dandruff flaky scalp & hair thinning

Its also known as for its antibacterial & Anti inflammatory properties

Its also preventing hair loss & scalp damage and also combat dandruff & balance scalp oil Production

Formulation of herbal antidandruff shampoo:

Preparation of Shampoo :-

Preparation of anti-dandruff shampoo:

Shampoo was formulated using simple mixing process. Herbal anti-dandruff shampoo was formulated by adding the required amounts of herbal ingredients . Herbal antidandruff are mostly used in natural ingredient. as given in the formulation table no 1

#### **Evaluation Parameter:**

1 Physical Appearance

1.Color : Color of formulation was checked by visual inspection.

2.Odour: the odor formation by olfactory sensation.

:Measurement of pH

The pH herbal shampoo formulation were determined by using digital pH meter .

1 ml of shampoo was taken and dispersed in 10 ml of distilled water and keep a side for 2 hours

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