

# Function and Evaluation of Hair Tonic from *cow urine, Fenugreek seeds, Aloe barbadensis miller*

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**Abstract:-** The reason for the loss of hair are exposure of the hair to the alkaline medium, decreased blood flow and scalp disease. Therefore it is important to develop a novel formulation that prevent loss of hair, which promotes hair growth.

➤ **Aim and Objective**

The aim of the study was to formulate and evaluate a hair tonic from cow urine along with fenugreek seeds and aloe vera .

➤ **Result**

The study of hair growth revealed that formulation of cow urine has similar growth rate compare to that of standards.

➤ **Conclusion**

From these work it was concluded that this novel hair tonic formulation posses hair growth promoting activity.

**Keywords:-** Alopecia, cow urine, Hair tonic , *T.Foenum Graeceu*.

## I. INTRODUCTION

Many people think about the healthy hairs but unfortunately people have trouble with there hair and related problem. Hair tonic is a liquid that promote the scalp health, moisturizes the dry hair , reduces the splitting of hair , helps to control dandruff and gives shiny appearance to the hairs.

Our present work was aimed to prepare and evaluate a herbal hair tonic containing herbs like methi seeds (*Trigonella Foenum-Graecum*), Aloe(*Aloe Vera*) and cow urine(*Gomutra*).

These herbs and cow urine have well known traditional potential in the treatment of the hair care. So, By using cow urine as a base we have made our hair tonic , which is helpful for health of hairs.

Basically massage of the hair tonic on scalp increases the blood flow to the hair follicle, also moisturizes, conditions the hair and scalp . Many people think that the sign of the healthy hairs the glossy hair these is the main purpose of the hair tonic. The use of hair tonic is very easy. These hair tonic should be apply on the hair half hour before the bath . Hair tonic massage improve the blood flow in the scalp which results in the good hairs.

We all know that hair are the complex structure of the several morphological components that all act as a unit. The hair shaft of the mammals are divided into three main regions as cuticle, cortex, medulla. When hair tonic reaches to the hair follicle for nourishment to scalp , it gives healthy hair as well as improves compatibility.

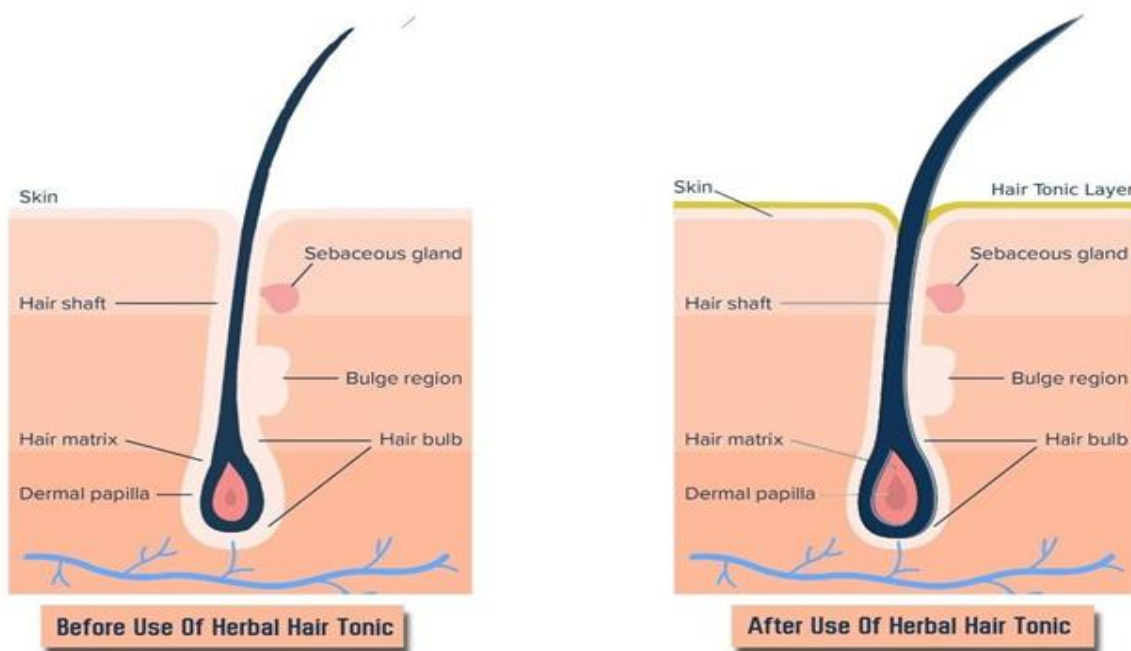


Fig 1

**II. METHOD AND MATERIAL**

**A. Fenugreek Seed (*T.Foenum-Graecum*)**

It is used for lowering blood sugar level, boosting the level of testosterone in men's, it also reduces the fat mass in the body, it can also cure the smooth muscle pain.



Fig 2

In the hair it is used because it has high protein and nicotinic content so it is beneficial against hair fall and dandruff. It is also used in the treating of variety of issues like dryness of hair, baldness, loss of hairs. It is also used in moisturizing the hair and bring back the lustre and bounce to the hair.

**B. Aloevera**

It is a good source of antioxidant and vitamin that may help to protect your skin. It is also used to neutralize the effect of ultraviolet radiation repair your skin from UV.

damage. They are polyphenols along with certain other compounds they can inhibit growth of certain bacteria that can cause infection.



Fig 3

It contains something called proteolytic enzyme which repairs the dead skin cells on the scalp. It acts as a good conditioner and also makes our hair smooth and shiny. The main function of it is to make the hair strong and also work as anti-dandruff, i.e. reduces the hair dandruff.

**C. Cowurine:**

It is used in the treatment of diabetes, blood pressure, asthma, eczema, heart attack, acidity, and constipation. It has many medicinal properties such as antibiotic, anticancer agent. It is used in controlling infection, swelling, itching, and other diseases.



Fig 4

The main medicinal property that cow urine has that is antifungal, antibacterial properties. It also reduces acne, dandruff and scalp diseases. Because of these antioxidant property these has done the low hair loss.

### III. LILLY FLOWER

There are many medicinal property such as reduces the heartbeat, reduces the blood volume and also blood pressure. It also work on the hairs such as it helps to revitalize it and also male our hairs more thick and also make hair shin.

These is used in the hair tonic because it has good smell. The smell of the lilly can overcome any smell so these lilly is used in the hair tonic.

#### A. Orange Peels :

These orange peels are a good source of vitamin c, minerals and antioxidant. The orange may decrease your heart risk and kidney related diseases it also contain an element which is good For the growth of the hairs which is bioflavonoid which is the hair promoting factor.

#### ➤ Procedure

There are two preparations made they are:

#### 1. Formula of hair tonic preparationno-1

INGRIDENTS	QUANTITY
Cow urine	250ml
Fenugreek seeds	200gm
Aloevera	150gm
Orange peel solution	20ml
Lilly flower solution	20ml

Table 1

#### 2. Formula of hair tonic preparationno-2

INGRIDENTS	QUANTITY
cow urine	175ml
fenugreek seeds	130gm
Aloevera	80gm
Orange peel solution	10ml
Lilly flower solution	10ml

Table 2

#### ➤ Procedure:

1. Firstly cut the aloevera from middle into twohalf
2. Then put the fenugreek seed into that into aloevera forsprouting.
3. Cover that aloevera with the clothes and keep it in hot place for two to threedays.
4. Then after two days take out that sprouted fenugreek seed and blend it with the cowurine.
5. Then put that blended mixture into the simple distillationapparatus.
6. Then start the simple distillation apparatus and keep it overnight.
7. Then next day the distillate is collected into thebeaker.
8. Allow it to cool.
9. Now take the orange peels and put it in water and allow it to boil till its concentrate is form.
10. Once its concentrate is formed then allow it tocool.
11. Now take the lilly flower and put it in water and boil it till its concentrate isformed.
12. Allow it to cool.
13. Then mix lilly concentrate, orange peel concentrate anddistillate.
14. Keep it over night and the tonic isformed.

*B. Stability studies:*

SR NO	PARAMETERS	OBSERVATION	AFTER 15 DAYS	AFTER 30 DAYS	AFTER 45 DAYS
1	Colour	Colourless	Colourless	colourless	Colourless
2	Odour	Aromatic	Aromatic	Aromatic	Aromatic
3	Density	0.926	0.921	0.925	0.926
4	Viscosity	132cp	132cp	132cp	130cp
5	Saponification value	250	240	241	249
6	Acid value	0.722	0.722	0.722	0.722
7	pH	7.2	7.2	7.2	7.3

Table 3

**Comparative effectiveness of Sample A and B (time required to stop hair fall in 10 patients)**

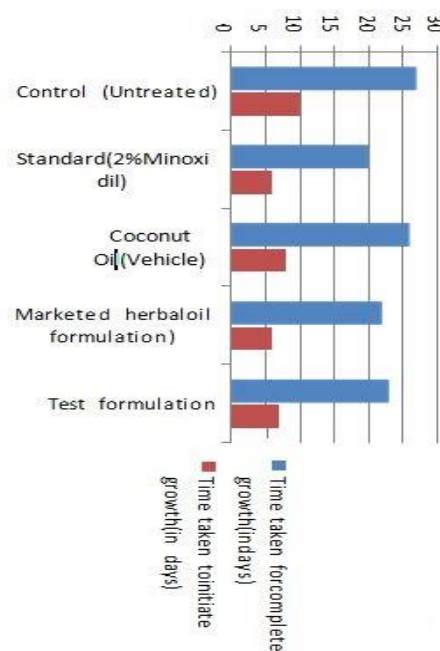
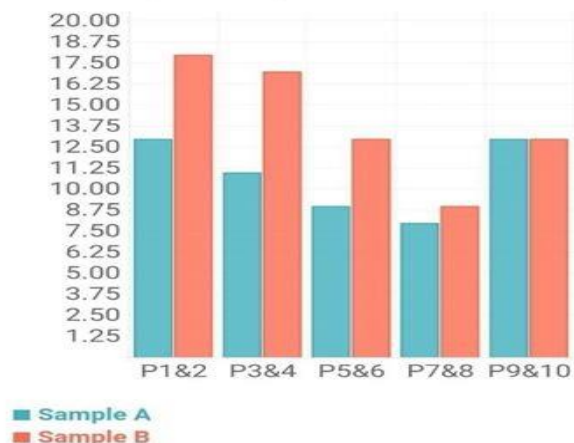


Fig 5

*C. Directions:*

Use the hair tonic half an hour before the bath. Take the hair tonic and massage it on your hair.

**IV. RESULT AND DISCUSSIONS**

The hair tonic prepared with the different quantity of the ingredients was given for use to people of Indira Nagar, Shrirampur. The testing of both the hair tonic was conducted in a group of 10 people to check its activity. About 75% of people found that sample-A has faster effect than sample-B. This is because the people which used the sample-A have slight change in their hair problems like reduce in dandruff, dry scalp, less in the hair loss and had become more shiny.

➤ *Physical evaluation:*

SR NO	PARAMETERS	OBSERVATIONS
1	Colour	Colourless
2	Odour	Aromatic
3	Density	0.926
4	Viscosity	132cp
5	Saponification value	250
6	Acid value	0.722
7	pH	7.2

Table 4

## V. CONCLUSION

The hair tonic study has been concluded that the hair tonic does not have any side effect on the skin and is good for the hair growth and cow urine had made the hair tonic more effective.

INGREDIENTS	IMPORTANCE
Cow urine	Antifungal and antibacterial
Fenugreek seeds	Hair growth
Aloevera	Moisturizers
Lilly essence	Shines hair
Orange essence	Antioxidant and vitamin-c

Table 5

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