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# Preparation of Herbal Soap from *Caralluma fimbriata* Wall stem

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**Abstract:** This study is aims to provide a simple and eco-friendly approach focused on preparation of herbal soap from Caralluma fimbriata Wall stemextract.C. fimbriata belongs to family Apocynaceae and it is wild medicinal succulent cactus plant, found on dry land. Herbal soap is used for skin whiting. It is a dry, constant, solid, foamy and attractive. As it is chemical free and natural it can be useful on skin.Stem extract of C. fimbriatawas mixed withliquid soap base. Heat the mixture together and pour into soap mold. After cooling for 2-3 hours soap is formed. As it is a natural plant product, it has no side effect on human skin.

Keywords: Caralluma fimbriata, Herbal Soap

# I. INTRODUCTION

Soap is a mix of sodium salts of numerous naturally occurring fatty acids. If the fatty acid salt has potassium rather than sodium, a softer lather is the result. Soap is produced by saponification or basic hydrolysis reaction of a fat or oil. Maximum marketable soaps contain chemicals that can be damaging to the skin and applying a natural herbal soap can be a decentalternate. Herbal soaps are made using natural herbs and elements that are healthier and useful for the skin and are fewer likely to cause any damaging effect. **1**.

*C. fimbriata* belongs to family Apocynaceae, in western India is commonly known as Makad Shingi, Ransambhar, Makad Shinguli, Kullimudayan, and Shindula Makadi. There are other species of *Caralluma* grow in India among this are *C. indica, C. attunata, C. umbullata, C. fimbriata C. adscendens. C. fimbriata* used as daily vegetable, famine food, Pickles, chutney, Appetite suppressant, quenching thirst, chewed chunk, supress hunger.**2**.

Saponification means a form of chemical reaction among a strong alkali or base (such as sodium or potassium hydroxide) and fat. Animal and herbal fats and oils are made of ester molecules named triglycerides. An ester is a molecule that is moldedsystem an alcohol and an acid. In the situation of fats, glycerine is the alcohol, and the acids are fatty acids like stearic, oleic, and palmitic acids. When the alkali solution is carefully mixed with the oils, a reaction termed saponification. Soap is three types like hard, liquid and paper etc. This herbal formation also found to useful for numerous other skin related problems such as scrofula, indolent ulcers, and even ringworm.**3**.

Herbal soaps are skin-clearing and skin-beautifying products. The keyadvantage of applying herbal cosmetics is their transparency, which leaves the body much in nutrients and other valuable minerals instead of causing any negative side effects. Persons' skin and hair beauty is influenced by their health, lifestyle selections, regular work, environment, and maintenance. Summertime dehydration from long heat contact to the skin results in wrinkles, freckles, blemishes, coloration, and sunburns. **4**.

The externallayer of the body, known as skin, founds the key line of defense that protections the body from a diversity of pathogens. Due to its continuouscontact to numerous environmental incentives, the skin is disposed to damage as it interacts with the environments. Acne is a widespread skin problempracticed during adolescence and young adulthood.**5.**Herbal soaps are made up of adding many dried herbs, flowers and stems into soap base. Herbs are the natural products could be found in the treatment of virtually all diseases and skin issues owing to their high medicinal property, availability, compatibility and cost effectiveness.**6**.

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# **II. METHODOLOGY**

## Plant material-

*C. fimbriata* wall stem collected from in Shrigonda tehsildist. Ahmednagar, State Maharashtra. After collection of the stem were shade dried at  $25^{\circ}$ c and fine powdered using help of mortar and pestle.

## Chemicals-

This Chemicals used in soap preparation is C. fimbriata plantextract, soap base, coconut oil.

## Extraction-

The *C. fimbriata* powder was extracted with water was taken in conical flask and extracted with water for four hours with occasional agitation then filtered. This extract used in soap preparation.

## preparation of herbal soap-

Extract of C. fimbriatastem.

Add coconut oil.

Take 20 gm soap base convert it into liquid form by heating.

Boil all the mixture together and pour into soap mold.

Cooled into room temperature up to 2-3 hours soap is formed.

# **III. LITERATURE AND REVIEW**

Sr.	Plant name	Plant part use	Plant	Reference
No.			product	
1	Azadirachta indicia	Leaves	soap	Priyanka Mandal 2021
2	Ritha, Tulsi & Neem	Seed, leaves, leaves	soap	Siddhartha Das, 2024
3	Azadirachta	Oil	soap	Dr.A.Seetha Devi 2021
	indica,Ocimumtenuiflorum			
4	Borassus flabelliferand	seed coat, rhizome	soap	Devipriya Nisha P 2021
	Curcuma zedoaria			
5	Neem and Tulsi	oil	soap	V. S. Jadhav 2023
6	Neem oil, Coconut oil, Mentha	oil	soap	Rakesh K. Sindhu 2019
	oil and Castor oil			
7	Azadirachta indica, Aloe Vera,	Seed, pulp, nut,	soap	Selvamani M 2022
	Almond Prunus, Curcuma	rhizome		
	longa			
8	Cassia fistula, Azardirecta.	leaves	soap	NM Wijayawardhana
	<i>indica</i> and flowers of N.			
	nucifera			
9	Hemidesmus indicus, Cyperus	Root, rhizome	soap	Gana Manjusha K 2019
	rotundus, and Saussurealappa			
10	Neem, Tulshi, Lemon,	leaves, leaves, fruit,	soap	Munde Govind Anant 2021
	Turmeric,	rhizome		

# Colour and appearance:

# **IV. RESULT AND DISCUSSION**

*C. fimbriata*used as asoap preparation. As it is chemical free and natural it can be applied on skin, hand and mouth. Herbal soap best appearanceand colour. It isgreenish and smooth in texture.





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## V. CONCLUSION

soap is used for wash the body cleaning and it ensures that the pathogen in the external parts, such as the skin, would be removed *C. fimbriata* is easily available. It is natural plant product, as it is herbal there is no side effect on human skin.

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