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Prepared *Aloe socotrina* homoeopathic medicated hair oil assessed by UV- visible spectrophotometer

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Abstract

Background: Through this research work prepared homoeopathic medicated hair oil prepared by *Aloe socotrina* Q in drug and vehicle ratio i;e (1:9) assessed by UV- visible spectrophotometer.

Methodology: Prepared homoeopathic medicated hair oil by mixing standard aloe socotrine Q in a virgin coconut oil in drug and vehicle ratio (1:9) which undergoes indirect heating. The sample around (3-4) ml placed in a clean cuvette under UV- visible spectrophotometer (Double beam)

Results: The absorbance capacity of aloe socotrine Q is 0.889 at 572.00 nm, *Aloe socotrina* hair oil is 0.052 at 578.00 nm.

Keywords: Aloe socotrina- Q, absorbance capacity, UV- visible spectrophotometer

Introduction

The Botanical name of the plant Aloe vera is Aloe Barbados Factory (*A. vera* L), A.ferox Plant furthermore, *A. africana* Plant or their mixtures. It has a place with the Family Liliaceae ^[1]. It Groups a large number Therapeutic properties which is helpful for Wellbeing, Magnificence (Shining of skin), Restorative, Skin care (Pimples, dim spots pigmentations) Properties. It has Concerning some almost 500 species. Aloe Barbados plant is the Ordinary Xerophyte Spice plant, it seems to be a Desert flora with thistle spines on the edges of the leaf which Prosper/Develop in Parched Zones and Absence of downpour In light of more and most extreme Test and Developed in enormous Quantities ^[2, 3]. Indian Alces/Aloe vera are the Plump, damp, Succulent plant. The Tasty are adjusted in Physiologically dry Territory, which has been Developed in the living Area having Absence of downpour, water lack and dry weather conditions by Getting and Keeping up with aquiferous parenchyma that is adjusted to store water. The Innate Highlights, Characteristics of the Aloe vera plant is it Oblige and keep up with the new puply juice tissue, vacillate/Stretch from 98.5. The Category Aloe vera Started out of the Word Arabic "Alloeh" Meaning "Flickering harsh/unpleasant substance," and "vera" signifies Latin word "Dedicated to life" 2000 numerous yonks back, the Greek scientists Considers Aloe vera as the ubiquitous ^[4].

History

The Aloe vera brought to applied for restorative Assurance for Countless human progress for heaven to brilliant age: Greece, India, Egypt, Japan, China and Mexico. [4] Before the at last the main 10 years of the nineteenth Century 1800s, Aloe vera exist in the Application even as a laxative and Evacuant property in the Place that is known for Freedom and new world, still by the center of the 1930s. The Summit and the Basic point has been Noticed it was favorably utilized to utilize and tend Proceeds and extreme Skin inflammation and Radio dermatitis radiation [5].

Plant

The Ordered division of Aloe vera is Aloe Barbados factory. It united to the family Liliaceae Asphodelaceae family, the aloe vera are boundlessness Comprising of or Having large amounts of bushes and New thick to altered with parenchyma and xerophytes, Absinth green tone shruby plant. It is Developed and breeded primarily in the absence of downpour, Hot, dry and nonattendance of downpour in the Zone and area of America, Europe, Africa and Asia. In ou country India. It is Developed and breeded in the provinces of Tamil Nadu, Gujarat, Rajasthan, Andhra Pradesh, Maharashtra [6].

It is a having a gathering of bushes having endlessness in numbers, nonappearance of stems tiny very small stemless plant Extending, spreading, developing to 90-100 cm tall with high new mash. Enhancing by bunch and cluster balances and root Growing and fledglings vegetate. The pamphlets are restricted long oval shape tightening to a point at the each end, Heavy, what's more, Plump succulent mash [7].

Materials and Methodology

Prepared Homoeopathic medicated hair oil by mixing *Aloe socotrina*- Q in a virgin coconut oil as drug and vehicle ratio i;e (1:9), which undergoes into indirect heating by hot water bath for 20 minutes at 100° C. After heating take 1 part of aloe socotrine virgin coconut oil mixed into 9 parts of Virgin coconut oil as a 1st dilution factor.

Formulation prepared by

Standard Aloe socotrina- Q

Site of study

Centre of Research and Development of Parul University (CR4D)

Investigational tool

UV- Visible spectrophotometer (Double Beam)

Drug and Vehicle Ratio

While formulation the drug and vehicle ratio were made as (1:9)

Standard *Aloe socotrina*- Q as 1 parts and Virgin coconut oil as 9 Parts

Medicinal product

Aloe socotrina- Q were purchase from GMP Certified Pharmaceutical Pvt. LTD.

Control sample

Virgin coconut oil

Preparation of Formulation of hair oil

The formulation of hair oil takes place in following stages; such as;

Measurement

- 2. Mixing
- 3. Mother sample
- 4. Filtration
- 5. 1st Dilution sample
- 6. Filtration

Measurement

In this step, measuring the volume of Drug *Aloe socotrina*-Q as 1 part and Vehicle (virgin coconut oil) as 9 parts in the measuring cylinder.

Mixing

Add 1 part of drug in a 9 part of virgin coconut oil. (As per the Decimal scale)

Mother sample

After mixing drug in a vehicle as (1:9) it undergoes into the indirect heating by Hot water bath until it became homogeneous mixture and then wait for cooling the temperature of solution.

Filtration

Then After preparation of mother sample, now it was filtered with the filter paper of 125 mm in diameter.

1st Dilution sample

After Filtration, prepared the 1st dilution sample of *hair* oil by taken 1 part of *Aloe socotrina* Virgin coconut Oil as like a drug sample and again mixed with the 9 parts of virgin coconut oil (as followed by the Decimal Scale).

Filtration

At the final stage, again repeat the procedure of Filtration to clear up the solution by filter paper of diameter 125 mm. These groups of samples were passed under the UV- visible spectrophotometer (Double beam).

Results

These samples were passes under the UV- visible spectrophotometer (Double beam) through which absorbance value of *Aloe socotrina*- Q is 0.889 at 572.00 nm, *Aloe socotrina* virgin coconut hair oil is 0.052 at 578.00 nm

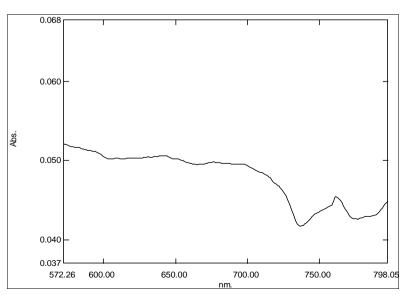


Fig 1: Absorbance capacity of Aloe socotrina virgin coconut oil

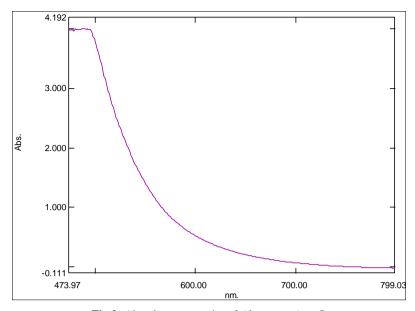


Fig 2: Absorbance capacity of Aloe socotrina- Q

Conclusion

Through this research work it was concluded that absorbance capacity of prepared homoeopathic medicated hair oil by mixing *Aloe socotrina*- Q in a virgin coconut oi as drug and vehicle ratio i;e (1:9) which undergoes into indirect heating by Hot water bath does not give maximum absorbance capacity assessed by UV- visible spectrophotometer. Hence, it need more accuracy while preparing such homoeopathic medicated formulation.

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