

FORMULATION AND PRELIMINARY EVALUATION OF HERBAL KOHL

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ABSTRACT

kohl is inseparable part of women beauty cosmetics because of its medicated and camouflage effect on human eyes and it has been used for ages .In this work an attempt was made to prepare Kohl by using Clove oil ,Eucalyptus oil which is the best alternative and herbal source and then after the formation of the kohl it was thoroughly mixed with Vitamin E to give spreadibility and smoothness to the eye preparation ,This formulation would have all the medicated advantages of clove and Eucalyptus oil, and A pure herbal kohl formulation of its own kind .

KEYWORDS: Kohl, Clove oil, Eucalyptus oil, Spreadibility.

INTRODUCTION

For many years the people of ancient civilization have been decorating their eyes with colorful substances in order to enhance their facial appearance and beauty.(1)

Cosmetic arise from a greek word kosmeticos which means adorn. If any material used for beautification or improvement of appearance is known as cosmetics. The cosmetic are external preparation which are meant to be applied to external parts of the body like skin, hair, and nails for the purpose of covering, protecting colouring, softening, cleansing, nourishing, setting and beautifying.(2)

Herbal Cosmetics has grabbed significant attention from past few years because of their enormous benefit Herbal cosmetics referred as products, are formulated, using various permissible cosmetics ingredients to form the base in which one or many herbal ingredients are used to provide cosmetics benefits only, They are called as 'Herbal cosmetics'. (3)

Raymond reed founding members of U.S. Society of cosmetics chemistry in used the term cosmeceuticals first in 1961. The same term was further used by Dr Albert Kligman in year 1984 to refer the substances have both therapeutic and cosmetics benefits.(4)

Collyrium or Kajal they are also known by other names like Al-kahal, kuhl, soorma, ithmid.'kajal' (kohl) is a popular eye care product . It has been claimed to keep the eyes cool and clean, improve vision and strengthen the eyes. The present cosmetic market has number of cosmetic kajals as they are the cosmetic product of everyday life .It has also been used for the prevention and treatment of eye diseases such as blepharitis, cataract, conjunctivitis etc.(5)

"kohl" is Arabic in origin and in actual the Arabic oculist called it as "kahal". In Arabic system of medicine, kohl has been defined as ultra fine powder containing one or more

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ingredients to be used in the eyes for prophylaxis and treatment of various eye diseases. Other Herbs such as neem, saffron, and fennel etc. can be used in it to give more therapeutic benefit to the Kohl .It has also been used in India as a cosmetics for a long time.(6)

MATERIAL AND METHOD

Clove oil, Eucalyptus oil, Soft paraffin were purchased and rest of the chemical used in the work was analytical grade

METHOD OF PREPARATION

For making kohl fill the clove oil and Eucalyptus oil into the deeper sock 1 or 2 cotton threads in

the oil and light it,placed two bowl in a 180° on the flame of cotton thread make sure the height of the bowl. Move the bowl on the flame of threads in to the front of the Deepak [lamp having clove oil and Eucalyptus oil]it helped to kohl making process fast since it caused the deposition of kohl on the surface of the bowl Gently place the of steel or copper on top of these two bowls.After5-10 minutes enough kohl for your kajal was formed then the same process was repeated 2-3 times to collect kohl from the plate.

Collected kohl was mixed with vitamin E oil mixed well. Add kohl as per the thick consistency needed.



EVALUATION OF HERBAL KOHL (1-10)

PHYSICAL EVALUTION: The formulated product afforded a shiny black color, with a characteristic odor. It was smooth and non-gritty in texture with a semisolid consistency.

PH DETERMINATION: The pH of various formulation was determined by using digital pH meter and pH strip. In case of kajal, pH was determined by pH strip and was found to be 6.4pH.

SPREADABILITY TEST: Spreadability denotes the extent of area to which the formulation readily spreads on application to skin or hair. The bioavailability efficiency of a formulation also depends on its spreading value. The spreadability was expressed in terms of time in

seconds taken by two slides to slip off from the formulation, placed in between the slides, under certain load. Lesser the time taken for separation of the two slides, better the spreadability. Two glass slides of standard dimensions were taken. For this purpose , cream was applied in between two glass slides and they were pressed together to obtain a film of uniform thickness by placing appropriate weight for some time .thereafter a weight (1 gm) was added to the pan and top plate was subjected to pull with the help of string attached to the hook. The time in which the upper glass slide moves over the lower plate to cover a distance of 7.5 cm is noted. The spreadability (S)can be calculated usins formula

$S = M.L/T$ where,

M= Weight tied to upper slide

L= Length of glass slide

T= time taken to separate the slides

Where M = 48.860 gm, L = 7.5 cm, T=1.25 sec.

S= $48.860\text{gm} \cdot 7.5\text{cm} / 1.25\text{sec}$

S= 293.16 gm.cm./sec

IRRITABILITY TEST: when the prepared formulation was applied on the eye . its causes no irritation on eye.

RESULT

The herbal based kohl was formulated and evaluated for:-

Physical Evaluation-Black color, characteristic odor, smooth and non gritty in texture.

pH 6.9, Spreadability test -293.16cm.gm./sec, Irritability no irritation etc.

CONCLUSION

The herbal kohl formulated with a view to serve the dual purpose of an eye cosmetics as well as keeps the eyes healthy and free from infection was evaluated on different parameter. The results of various determination are suggestive of an acceptable and elegant product.

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