

Research Article- Formulation and Evaluation of Herbal Cold Cream

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Date of Submission: 27-05-2023	Date of Acceptance: 08-06-2023

Abstract:

Herbal cosmetics are used in nourishment moisturizing the skin, they are useful and beauty to enhance and human appearance. In further formulation and evaluation of herbal cream that contains liquid plant extracts, paraffin as а lubricating agent, bees wax as stabilizer, methyl paraben as antibacterial agent by using water in oil method.bt almond oil and neem oil, the herbal cold creams are formulated and evaluated. Evaluation parameters like pH, viscosity, stability test, dye test spreadability, microbial growth test. herbal products are safe and affective which have less adverse reactions and are non-toxic in nature. By evaluation herbal studying the following parameter was concluded is the formulated herbal cold cream is safe, non toxic in nature, ready to use.

KEY WORDS: Cold cream, formulation of cold cream, pH, viscosity.

I. INTRODUCTION:

In ancients age human beings are to improve their external using chances appearance, to improve of social success and to highlight their self esteem. The word cosmetics was derived from the which Greek word 'kosm tikos' means something having the power, arrange, skill in decorting. The term Cosmeceutical was first used bv Raymond Reed founing member of US Society of Cosmetics chemist in 1961. He actually used the word to brief the active and science based cosmetics. The term wa further used Dr. Albert Kligman in 1984 the substance that have to refer both cosmetic and therapeutic benefits.

Herbal preparations are the basis products for finished herbal, and may include comminute or powdered herbal materials, or extracts, tinctures and fatty oils of herbal materials. They are produced by extraction, fractionation, purification, concentration, other or physical or biological processes. Thev also include preparations made bv or heating herbal materials in steeping beverages and/or alcoholic honey. or in materials. Finished herbal other products consist of herbal preparations made from one or more herbs. If more than one herb is used, the term "mixture herbal product" used. Finished herbal can also be products and mixture herbal products may contain excipients in addition to the active ingredients.

We studying the formulation are and evaluation of cold cream. Cold cream is the water in oil. Cold cream gives the prolonged contact time in the site of application as compared to the other semi solid dosage form or formulation. The function of the cold cream is for restoring moisture dry skin, it allows to to from eliminate the waste materials the pores and also cools the body. It is easily watered washable and easy to wash away. They non-irritating are when applied on the skin.

The function of a skin cream is different toprotect the skin against environmental condition, weather and effect to gives soothing the skin. There different of like are types creams vanishing, cleansing, cold, foundation, night, massage, hand and body creams. The main aim of our work is to develop a herbal cream which can give multipurpose like effect, moisturizer,



reduce acne and skin irritation, reduce skin diseases like eczema, psoriasis, drv skin, wrinkles, rashes etc. and also adding glow to the face. We have used two preparation herbal ingredients in our which are Neem, Almond. Aloe Vera gel moisturizer, to reduce is used as а pimples and also used and acne for burn wounds. Neem is used treatment of as an antifungal and anti-inflammatory and it is also used to reduce scar, pigmentation, redness and itching of the skin. Cold cream is the water in oil emulsion. Cold cream gives the prolonged contact time in the site of application as the other compared to semisolid dosage form or formulation. They give elegancy to the skin and it is not that much greasy. Due to the oil phase, it gives an emollience to the skin. The function of the cold cream is for restoring moisture to dry skin, it allows to eliminate waste materials from the the pores and also cools the body. It is easily watered washable and easy to wash away. They are non-conservation to the skin. It liquefy at body temperature gets natural pores.

Advantages of Herbal Cold Cream.

- As cold creams contain enough amount of water and oil, they keep skin safe from the rough environments.
- It Prevents ageing and dehydration of skin.
- They also keep skin moisturized and safe.
- Cold creams are designed to remove makeup and smooth the skin.
- To help in the maintenance of moisture balance of skin and avoid rough skin co uses of cold cream.
- Medicated cold cream is mainly used as topical pharmaceutical dosage form for the treatment of skin.
- To provide an emollient effect and oily protective layer on the skin.

Ideal Properties of Herbal Cold Cream

- pH must be 4.6 to 6.0
- Should be less greasy and easily spreadable.

- Should be stable.
- Should give faster emollient effects.
- Should give the cooling effect.

Application of Cold Cream

Cold creams are used in number of different ways like, makeup remover, it removes makeup without water. the thick oils of cream gently melts makeup and dirt away, without any damage to the skin.

affective Cold creams are also as lotions, body shaving creams. Applying cold creams body delivers to your hydration that the designed cream is to provide to your face but to your arms, legs and back.

INGREDIANTS OF FORMULATION:

The details of the plant material used for the formulation of cold cream are mentioned below

- Almond oil
- Neem oil
- Borax
- Beeswax
- Rose water

Almond Oil

It contains omega-3 fatty acids with is cholesterol helpful to maintain the healthy levels and memory booster. In Cold cream almond oil is used as Antiinflammatory agent.





International Journal of Pharmaceutical research and Applications Volume 8, Issue 3, May-June 2023, pp: 2290-2295 www.ijprajournal.com ISSN: 2456-4494

Almond oil

Neem Oil

Neem oil contains Azadirachtin which is extracted rom the neem oil. Neem oil is naturally occurring pesticide found in seeds from the neem tree



Neem Oil Borex

its mild and antiseptic nature, quite a few natural cosmetic products tend to include Borax as an essential ingredient as well. In cosmetic products, borax is sometimes used as an emulsifier, buffering agent, or products, preservative for moisturizing gels, creams, shampoos, lotions, bath bombs, scrubs, and bath salts.



Borex

Bee wax

protect It skin from can environmental irritants and extreme weather. Promotion of Hair Growth-Beeswax only moisturizes not and soothes hair, but it can keep moisture from getting out of the hair. Beeswax can create a protective layer on the skin. It's also a humectant, which means that it you attracts water. It can help fight conditions like acne. drv skin. eczema. and stretch marks. Our raw beeswax can help you create your care own skin moisturizers lotions and specially formulated just for you.



Bee wax

Rose water

Rose Water Maintains the Skin's Balance. Chemically Natural pН produced soaps cleansers disrupt the and pH balance of our skin, making it prone bacteria to that cause various skin conditions like rashes and acne. This property helps rose water restore the skin to its normal pH level.



International Journal of Pharmaceutical research and Applications Volume 8, Issue 3, May-June 2023, pp: 2290-2295 www.ijprajournal.com ISSN: 2456-4494



Rose water

Method of Preparation

- Take required quantity of Beeswax and Liquid paraffin in porcelain dish.
- Heat this mixture in water bath for melting purpose. Remove dish from water bath.
- Take Borax and distilled water in beaker. Heat this solution in water bath for about 75C.
- This Borax solution added drop wise in porcelain dish with continuous stirring. Add Methyl paraben in porcelain dish dissolved it.
- Add Neem oil and Almond oil in this solution. Add perfume for fragrance.
- Herbal Cold Cream was obtained

Sr.No	Name of Ingrediant	Quantity for 100gm
1	Methyl Paraben	0.010gm
2	Borex	0.25gm
3	Beeswax	15gm
4	Liquid paraffin	50gm
5	Neem oil	23gm
6	Almond oil	25gm

Composition of herbal cold cream

Evaluation of herbal cold cream:

Morphological evaluation:

Physical properties: color, odor and appearance was observed.

Physicochemical Evaluation

pH: The pH meter was calibrated with the help of standard buffer solution. Weight 0.5 gm of cream dissolved it in 50 ml of distilled water and its pH was measured with the help of digital pH meter.

Viscosity: Viscosity of the cream was determined with the help of Brookfield viscometer at 100 rpm with the spindle no.

ability Spread test: The cream sample applied between the two was glass slides and was compressed between the twoglass slide to uniform thickness by placing 100 gm. of weight for 5 minutes then weight was added to the weighing pan. The time in which the upper glass slide moved over the lower slide was taken as a measure of spread ability. Spread ability=m *l/t

Where M =weight tight to upper slide

L =length moved on the glass slide

T =time take

Irritancy test: Mark an area (1 sq.cm) on the left-hand dorsal surface. The cream was applied to the

specified area and time was noted. Irritancy, erythema, edema, was checked if any for regular intervals up to 24 hrs. and reported. [25,26]

Test for microbial growth: Agar media prepared then the formulated was cream was inoculated on the plate's agar media by steak plate method and a controlled is by omitting the prepared cream. The plates were placed in the incubator and are incubated in 37 0 C for 24 hours. After the incubation period, the plates were taken out and the microbial growth were checked and compared with the control.

Dye test: The scarlet red dye is mixed with the cream. Place a drop of the cream on a microscopic slide then covers it with

DOI: 10.35629/7781-080322902295 | Impact Factor value 7.429 ISO 9001: 2008 Certified Journal Page 2293



a cover slip, and examines it under a globules microscope. If the disperse ground the appear red colorless. The cream is o/w type. The reverse condition occurs in w/o type cream i.e. the disperse globules appear colorless.

Homogeneity: Homogeneity was tested via the visual appearance and test.

Sr.No	Parameter	Observations
1	Color	Whitish green
2	Odor	Pleasant
3	Texture	Smooth

Physicochemical Evaluation

pH:

The pH of the cream was found to be in range of 5.6 to 6.8 which is good for skin pH. The herbal formulation

was shown pH nearer to skin required i.e. pH 6.65

Washability:

Washability test was carried out by applying a small amount of cream on the hand and then washing it with tap water.

Viscosity:

Viscosity of cream was done by using Brooke field viscometer at a temperature of 25 °C using spindle No. 63 at 2.5 RPM. According to the results all the formulations showed adequate viscosity.

Test for microbial growth:

There was no signs of microbial growth after 24 hrs. of incubation a 37°C and it was comparable with the control.

Spread ability test:

The spread ability test showed that the good formulated cream has spread able property. The separate in the description of evaluation test lesser the time taken for separation of the two slides better the spread ability.

Dye test:

The scarlet red dye is mixed with the cream. Place a drop of the cream on a microscopic slide covers it with a cover

Results

yellowish. The color of formulation was odor prepared formulations The of was good acceptable pleasant and which is desirable cosmetic formulations. to and acceptable Texture smoothness were requirement of cosmetic as per formulations.

slip, and examines it under a microscope. The disperse globules appears colorless in the red ground i.e. w/o type cream.

Homogeneity:

The homogeneity of the formulated cream was judged by the visual appearance and touch. The appearance and touch of the cream were good.

II. CONCLUSION

Herbal formulations have growing demand in the world market Herbal face masks are considered as productive way to advance the appearance skin. they are used of the to stimulate help blood circulation, to maintain skin elasticity. further studies In we have formulated the herbal cold by а cream using easily available ingrediants like neem oil, almonds suggested oil. It that formulation prepared ws physicochemically and microbiologically stable and having characteristics of the standard cosmeceutical formulation of skin care roducts.

REFERENCES:

- Heng*, Topical [1]. Madalene CY Curcumin: Review of Mechanisms А Dermatology and uses in International Journal Dermatology of and Clinical Research 2017.
- [2]. Ashwini Dhase*. Somishwar S. S Khadbadi Shweta and S. Saboo, Formulation and Evaluation of Vanishing Cream Crude Herbal of Drugs, American Journal of

DOI: 10.35629/7781-080322902295 | Impact Factor value 7.429 ISO 9001: 2008 Certified Journal Page 2294



Ethnomedicine, 2014, Vol. 1, No. 5, 313-318.

- [3]. Saraf, S., & Kaur, C. D. (2010). Phytoconstituents as photoprotective novel cosmetic formulations.Pharmacognosy reviews, 4(7), 1.
- UddanduSaheb*, AduriPrakash [4]. Reddy, K. Rajitha, B. Sravani, B Vanitha,(2018). Formulation and Evaluation of Cream from containing plant extracts. World Journal of Pharmacv and Pharmaceutical Sciences, 7(5):851
- [5]. ManishaYogeshSonalkar, SachinAnnasahebNitave.
 Formulation and evaluation of polyherbal cosmetic cream. World J Pharm PharmSci 2016;5:772-9.
- [6]. KalpeshChhotalalAshara. Importance of trituration technique on preparation and evaluation of cold Inventi Rapid Pharm Tech cream. 2013;1-2:2012.
- [7]. N. Shah. B.M.Methal, (2006)Α Handbook of Cosmetic, VallabhPrakashan Myers D. Surfactant Science and Technology, VCH Publishers: 1992, Pp. 209-247.
- Nikhil Nitin [8]. Navindgikar, K.A. Kamalapurkar, Prashant S. chavan. Formulation and Evaluation of multipurpose herbal cream . Int J Curr Pharm Res, Vol 12, Issue 3, 25-30.
- [9]. Saraf, S., &Kaur, C. D. (2010). Phytoconstituents as photoprotective novel cosmetic formulations. Pharmacognosy reviews, 4(7), 1.
- [10]. K.Kokate ,A.P.Purohit, S.B.Gokhale
 (2014) Textbook of Pharmacognosy. NiraliPrakashan 50th edition, p.p. 9.1 & 14.132.
- [11]. S. Khadabadi, S.L. Deore, B.A. Baviskar.(2014), Pharmacognosy and Phytochemistry, Comprehensive А Approach, PharmaMed published by Press, 1st edition, p.p.8.4