



Cosmeceuticals Of Moisturizer Cream

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ABSTRACT

- Moisturizers are one of the most widely used preparations in cosmetics and have been extensively used to soften the skin for consumers. Moisturizers work effectively in combating dry skin which may cause pain, tightness, itch, stinging, and/or tingling.
- Moisturizers bridge the gap between medicine and consumer goods by being used to make the skin more beautiful and healthy. In the future, in moisturizer therapy, the capacity to adapt specific agents to specific dermatological demands will be crucial. Cosmetically, moisturizers make the skin smooth by the mechanism of increasing the water content in the stratum corneum, hence exerting its most vital action, which is moisturizing action and maintaining a normal skin pH.
- The aim of this review is to evaluate published studies on the history, ingredients, preparation processes, characteristics, uses, and applications of moisturizers. Suitable methods of preparation of creams, their classification based on their function, their advantages and disadvantages, characteristics and the various types of creams, ingredients used in the formulation of creams and their various evaluation parameters.

COSMECEUTICALS

- Cosmeceuticals are derived from two words 'cosmetics' and 'pharmaceutical'.
- Cosmeceuticals are a type of cosmetic product which contain biologically active ingredients
- Cosmeceuticals are used for beneficial effects on psychological well-being. Combining multiple cosmeceuticals has been suggested to give additive benefits. {1}

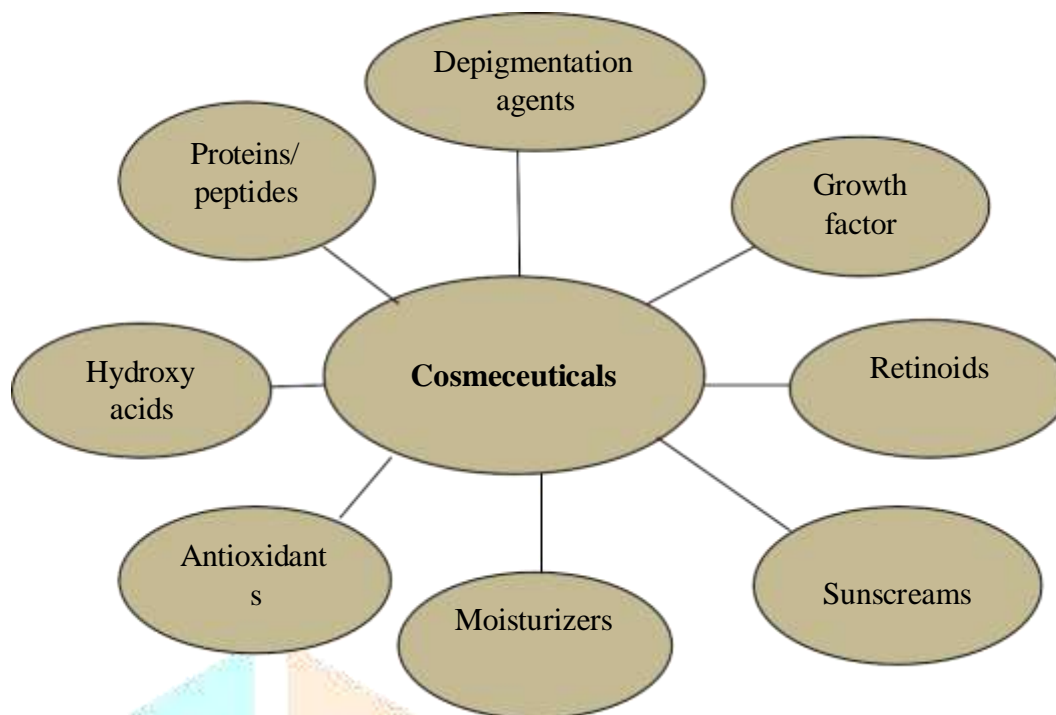


Figure.1 Cosmeceuticals

HISTORY OF COSMACEUTICAL



ALBERT KLIGMAN

- The history of cosmeceuticals dates to the Egyptians in the 1600s. who described the use of Cosmeceutical-like products in their medical.
- The cosmetics were first used by Egyptians in 4000 B. C whose records are being available. Their productivity and usefulness has thus been known since ancient times. R.
- Up to the beginning of 19th century, there was no clear separation between cosmetic and pharmaceuticals, the separation occurred when the first modern pharmaceutical industry was developed.
- Raymond Reed, the founder of the US society of cosmetic chemists, was the one who proposed the term cosmeceutical after recognizing their functional benefits.
- Kligman, in the late 1970s, who propagated the term and took forward the use of cosmeceuticals. He based his theories mainly on his work done with retinoic acid on UV damaged skin.{2}
- A pivotal 2006 milestone was hemp oil-based cosmeceuticals by Echo Pharmaceuticals, leveraging cannabis law changes for acne-combating properties, paralleled by soy hybrids. Technological strides from

the 2000s incorporated biorefineries for zero-waste extraction, fusing ancient lore with modern innovation like an alchemist transmuting elements.

- CBR's mission is to produce organic biofuels like bio-butanol using renewable plant materials, extending to cosmeceuticals as part of a vertically integrated system. Their CBR CORE Mini AI Hub integrates AI for optimized renewable energy and product production, including cosmeceuticals, with a focus on community-optimized renewable energy. This article delves into CBR's contributions, highlighting how their sustainable model enhances the potential of cosmeceuticals in the cosmetics industry.{3}

WHY DO WE NEED COSMECEUTICALS

- Some things are inevitable, like ageing – but we're all looking at ways to turn back the clock and protect our skin into the future.
- There are tonnes of products out there that claim to improve your skin quality and integrity, but are they all effective.
- They say Cosmeceuticals walk the line between cosmetic and pharmaceutical products; hence their name. They are products that contain botanically-derived, active ingredients that change the biological structure and workings of your skin. They don't just make your skin look and feel better temporarily, but create changes in your skin that last into the future.
- Our skincare experts can help you with a personalised skincare plan. We offer all skin consultations for free, and will advise on the best product or course of treatment for your skin. In order to get the desired results, it's important that you regularly adhere to the recommended skincare regime.



Figure.2 Need of Cosmeceuticals

DIFFERENCE BETWEEN COSMETICS AND COSMECEUTICALS

Factor to consider	Cosmetics	Cosmeceuticals
Target effect of ingredients	Primarily work on short-term aesthetic enhancements. They improve appearance due to the coverage of imperfections, adding color or defining features	Claim to treat and/or improve specific skin disorders to a better extent, with both cosmetic and therapeutic benefits than cosmetics. These may involve anti-wrinkles, anti- acne, hyper-pigmentation, or even general skin health- enhancing products.
Ingredient concentration	The concentrations of active ingredients in them are generally low, with the objective of acting on the superficial epidermis layer of the skin (2).	Contain high concentrations of scientifically validated active ingredients, which act on the deeper layers of skin, the dermis (1).
Scientific evidence	May include some active ingredients that can be beneficial, the number of certain evidence to support the said effects may not be that much (1)	there may be more of a strong scientific basis for most of the claimed effects (1)

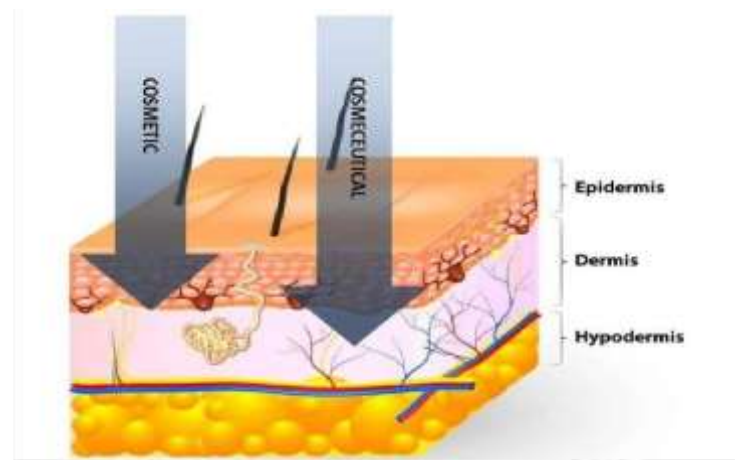


Figure.3 Cosmetic and Cosmeceutical

COSMECEUTICALS AND INGREDIENTS

• Cosmeceuticals represent a new category of products placed between cosmetics and pharmaceuticals that are intended for the enhancement of both the health and beauty of skin. Encompassing an ever-increasing part of the skin care industry, cosmeceuticals are formulated from a multitude of ingredients, the main categories of which are discussed in this article. Given the growing interest in these products among patients and the strong claims made by manufacturers, it is important that physicians recognize these agents and understand their benefits, limitations, and potential adverse effects.

- **Vitamin A or Retinoids :-** A thickening of the dermis as the skin is “filled in” with glycosaminoglycans, helping to reduce fine lines and wrinkles.
- **Vitamin C:-** Vitamin C has anti-inflammatory and antioxidant properties.
- **Vitamin B3:-** improve skin barrier by increasing lipids and epidermal protein.
- **Hydroxy Acid:-** its proven antiaging benefit and ability to improve hyperpigmentation and acne- prone skin.
- **Peptides:-** It has high potency and was shown to improve wrinkled skin when applied topically at very low doses and with minimal skin irritation.
- **Kinetin:-** the continuous application of kinetin may have the ability to delay the skin changes.
- **Botanicals:-** Cosmeceutical agents derived from plant sources make up an increasing niche in the cosmetic market.
- **Vitamin E:-** another vitamin that is purported to have advantageous cosmetic effects on skin.{6}

MOISTURIZER CREAM

- Moisturizers can be defined as topical formulations containing substances that are intended to increase the hydration of the skin and restore its natural protective barrier function.
- Moisturizers are commonly used in dermatology to treat and prevent various skin conditions, such as eczema, xerosis, lichen simplex, etc.
- Moisturizers are very popular dermatological products prescribed due to their proven efficiency to prevent and treat various dermatological conditions.
- There is a growing body of literature that recognizes the importance of moisturizers. It is essential for a wide range of fields, such as cosmetics and pharmacy.{7}
- Galen, the Greek physician created the first cold cream: a mix of water, olive oil, beeswax and floral oils to keep skin hydrated.
- Americans discovered lard which has been an ingredient in skin moisturisers for centuries to relieve dry skin.{8}
- Moisturizers are perhaps the most prescribed products in dermatology practice and also the most intriguing one.{9}
- Moisturizing action[23,24,25,26]: This is the most vital action by which they increase the water content of the SC. Hydration smoothes the skin surface by flattening the “valleys” between the skin contour ridges. It also makes the skin surface soft, more extensible, and pliable. The moisturizing action of emollients is evident maximum 30 min–1 h after their use and usually lasts for 4 h.



Figure.3 Moisturizer Cream

TYPES OF MOISTURIZER CREAM

➤ Different skin types need different facial moisturizers, which come in different textures and thicknesses.

1. Oily skin: The best moisturizer for oily skin is a water-based, oil-free moisturizer like a gel moisturizer, which has no oil in it. Gel moisturizers are mostly humectants-based with rejuvenators for additional benefits. These non-greasy, lightweight moisturizers are good for acne-prone skin.



Figure.4 Moisturizer Cream For Oily Skin

2. Dry skin: A cream will be the best moisturizer for dryness because its thickness means it will feel relatively heavy on the skin and will take longer to dry. A moisturizing cream contains both oil and water ingredients—humectants to draw in moisture and oil ingredients to retain moisture.



Figure.5 Moisturizer Cream For Dry skin

3. Normal/combination skin: This skin type can use any type of moisturizer. If your skin is normal but on the dry side, you might want to use a thicker, cream moisturizer. If your skin is normal but on the oily side, a gel or gel cream/water cream might be best.



Figure.6 Moisturizer Cream For Normal Skin

4. Sensitive: People with sensitive skin should look for fragrance-free moisturizers that are free of parabens and irritants.



Figure.7 Moisturizer Cream For Sensitive Cream

5. Various types of moisturizer:-



Figure.8 Various type of Moisturizer Cream

INGREDIENTS OF MOISTUZER CREAM

Name of Raw Materials	Quantity	Functions
Water	60-70%	The main base, providing immediate hydration
Emollients	5-15%	These soften and smooth the skin by filling in gaps, creating a protective barrier. Examples include mineral oil, shea butter, petrolatum, and squalane.
Emulsifiers	2-6%	Essential for combining the water and oil phases, as they will not mix on their own. Common examples are glyceryl stearate, cetearyl alcohol, and cetyl alcohol.
Glycerin	5-10%	Humectants
Steric Acid	1-4%	Thickness
Potassium Sorbate	15-20%	Preservatives

ROLE OF MOISTURIZER

- Moisturizer has an important role in maintaining healthy skin.
- Moisturizer for skin health are maintaining skin moisture, preventing premature aging, reducing inflammation, helping wound healing, making skin smoother, and improving skin health.
- Moisturizer helps keep the skin moist so that the skin does not become dry.
- Moisturizers can help reduce inflammation in the skin because its main function is to maintain skin moisture and health.
- Moisturizers containing antioxidants can help protect the skin from free radical damage and prevent premature aging.
- Moisturizers can make the skin softer and smoother by helping remove dead skin cells and maintaining the skin's natural.
- Moisturizers for sensitive skin must be fragrance-free and free of chemicals that can irritate the skin.
- Moisturizer for mature skin should be able to provide humidity and help repair skin damage.{10}
- Moisturizers help maintain the skin's hydration balance while making your skin soft, supple, and youthful.
- Using moisturizers regularly is essential to maintaining its health and nourishment.
- Moisturizers are a must-have in any skincare routine, helping to keep your skin soft, hydrated, and protected.
- Whether it's a cream, gel, or lotion, these products work by combining ingredients like humectants and emollients to lock in moisture and nourish your skin.{11}

MECHANISM OF ACTION OF MOISTURIZER

- **Three methods are used to moisturize skin:-**

1. Occlusive
2. Humectants
3. Emollient

• **Occlusives:-** Occlusives are substances that physically block TEWL in the stratum corneum. Petrolatum in a minimum concentration of 5% is the most effective occlusive followed by lanolin, mineral oil, and silicones such as dimethicone. Petrolatum is widely used as a classic moisturizer. Lanolin, a complex structure of esters, diesters, and hydroxyesters of high molecular weight, lanolin alcohols, and lanolin acids, is also widely used and quite effective.

• **Humectants:-** Humectants attract water when applied to the skin and theoretically improve hydration of the stratum corneum. However, the water that is drawn to the skin is trans-epidermal water, not atmospheric water. Continued evaporation from the skin can actually exacerbate dryness. Humectants include glycerin, sorbitol, urea, alpha hydroxy acids (i.e., lactic acid) and other sugars. NMF{12}

- **Emollient:-** They are mostly made up of lipids that are close to the skin's intercellular lipids, and they can possibly replenish the lipid matrix that is damaged. By substituting the main lipid components, the moisturizers' combinations of ceramide, fatty acids and cholesterol can help fix lipid bilayers damaged by solvents, soaps and harsh dry or cold weather conditions. Ingredients that exhibit emollient properties include cetylcaprylic/capric triglyceride, cetearyl or cetyl alcohol, or oils, such as soybean, sunflower seed and grapeseed oil.{13}

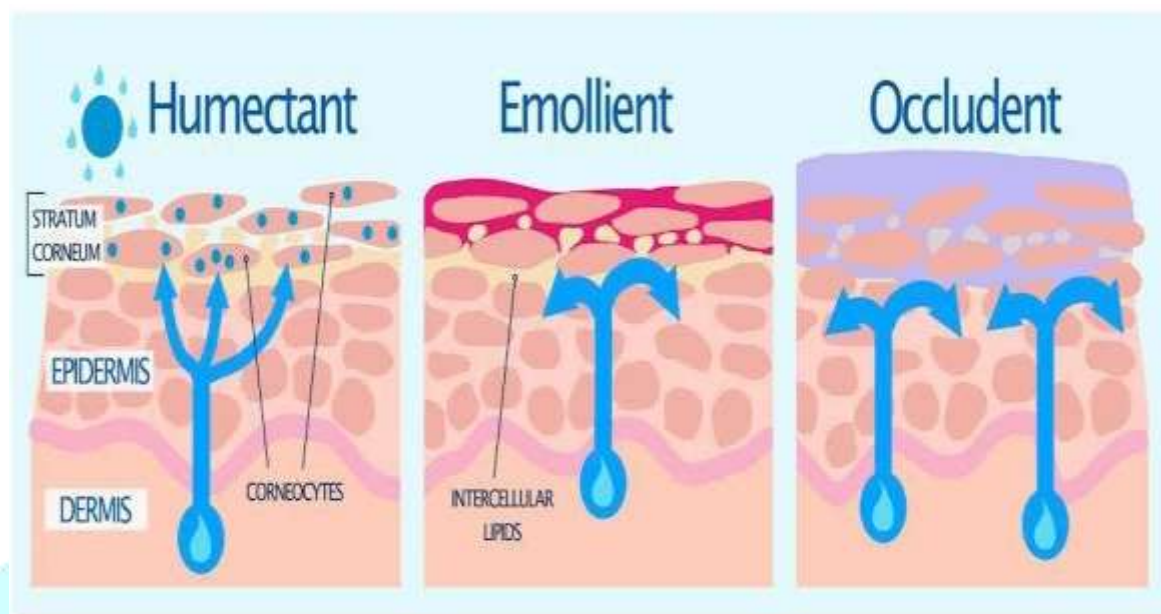


Figure.9 Mechanism of Moisturizer Cream

IDEAL CHARACTERISTICS OF MOISTURIZER

- A good moisturizer should be able to hydrate the skin and seal in that moisture without clogging pores or causing irritation, it should also be formulated with ingredients that are beneficial for the skin, such as antioxidants, hyaluronic acid, and ceramides.
- They are typically oil-free and have a lightweight consistency. which allows the skin to breathe. Ingredients that are known to clog pores, such as heavy oils and waxes, are often avoided in non-comedogenic products.{14}
- Patients who are confused by media hype often ask this question. The Ideal Moisturizer should be;
- Effective—hydrating the SC reduces and prevents TEWL.
- An emollient—makes skin smooth and supple and reduces TEWL
- An aid in restoring the lipid barrier, i.e., duplicating and enhancing the skin's natural moisture retention mechanisms
- **Cosmetically elegant and acceptable**
 - Moisturizing to sensitive skin—i.e., hypo-allergenic, nonsensitizing, fragrance free, noncomedogenic.
 - Affordable.
 - Long-lasting.
 - Absorbed rapidly providing immediate hydration.

- Enhances the water-holding capacity of the skin{ 15 }

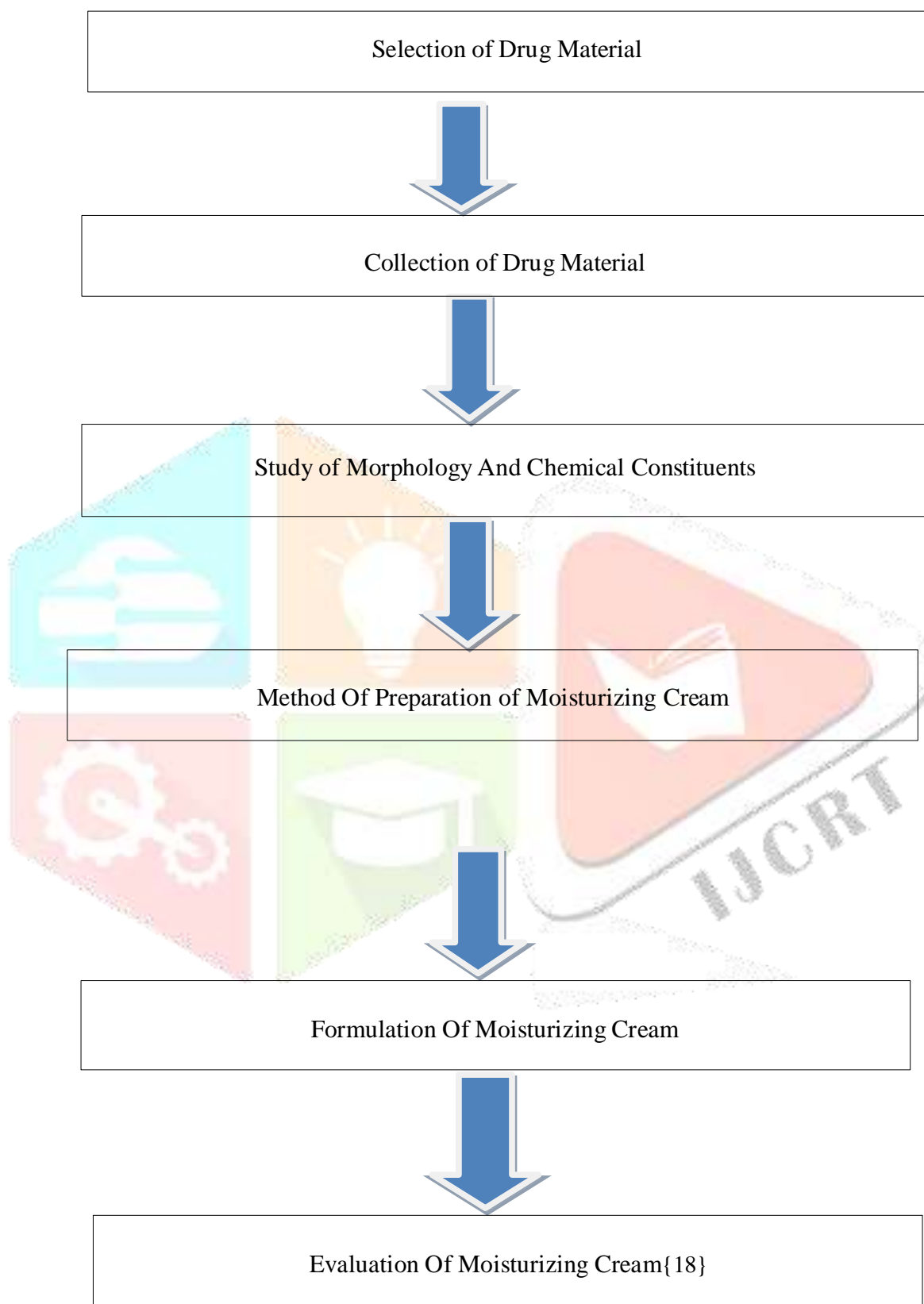
ADVANTAGE AND DISADVANTAGE OF MOISTURIZER

- **Advantage:-**

- Moisturisers are useful in the prevention and treatment of skin diseases.
- They work by improving skin hydration, supplementing barrier lipid deficiency, and improving skin barrier function.
- Moisturiser can reduce skin sensitivity,
- They work by improving skin hydration,
- Moisturisers contain lipids in their base that can quickly relieve dry skin by suppressing moisture loss.
- Moisturizer helps trap in moisture to your face.
- Reduced skin dryness, leading to improved skin integrity and barrier function.{ 16 }

- **Disadvantages:-**

- Stability is not as good as ointment.
- They are less hydrophobic than other semi- solid preparation, so risk. of contamination is high than the others.
- Skin irritation of contact dermatitis may occur due to the drug and/excipients.
- Poor permeability of some drugs through the skin Possibility of allergic reactions.
- Can be used only for drugs which require very small plasma concentration for action.
- You might not use enough product for adequate SPF protection. You need approximately two finger-lengths of product for effective sun protection
- Using a moisturizer with SPF at night is unnecessary and can be wasteful, as SPF isn't needed during nighttime.{ 17 }

PREPARATION AND FORMULATION

MATERIAL USED IN PREPARATION OF MOISTURIZER**• MATERIALS AND METHODS:-****➤ MATERIALS:-**

1. Aloe Vera Gel:- Aloe vera gel is a popular natural remedy known for its soothing and moisturizing properties, primarily used for skin conditions.



Figure.10 Aloe Vera Gel

2. Glycerin:- It's a natural compound found in fats and oils, and it's commonly used as a humectant, a type of moisturizer.



Figure.11 Glycerin

3. Coconut Oil:- Coconut oil is versatile ingredients with various uses, from cooking and baking to skincare and haircare. It's also used for massage, oral hygiene, and even as a natural remedy for some skin conditions.



Figure.12 Coconut Oil

4. Rose Water:- Rose water is a fragrant liquid made by distilling rose petals with water. It's a popular natural toner and is used for its hydrating, soothing, and refreshing properties. Rose water is al



Figure.13 Rose Water

5. Vitamin E capsules:- Vitamin E is an antioxidant, which helps to protect your cells.



Figure.14 Vitamin E Capsule

INGREDIENT USED IN MOISTURIZER CREAM

Sr. No.	Ingrdients	Scientific Name.	Function	Quantity
<u>1.</u>	Aloe vera gel	Aloe barbadensis miller	Hydrating, Soothing, healing, antimicrobial	20g
2.	Glycerin	Glycerol	Humaectant, Moisturizing, Skin-barrier support	5g
3.	Coconut Oil	Cocos mucifera oil	Emollient, antimicrobial, occlusive	10g
4.	Rosewater	Rose damascene/centifolia	Astringent, anti-inflammatory, aromatic	12.5g
5.	Vitamin E oil	Tocopherol	Antioxidant, moisturizing support skin repair	1.25-2.5g

METHOD OF PREPARATION

Sanitize all utensils and containe



In a clean bowl, mix aloe vera gel, glycerin, and rosewater until well blended.



Melt the coconut oil (if solid), then let it cool sight.



Add coconut oil and vitamin E oil to the mix, and stir or whisk thoroughly.



Whip with a hand mixer if you want a fluffier consistency.



Transfer to a clean, airtight container.{18}

STERILITY, STORAGE AND LABELING INFORMATION

➤ **STORAGE & SHELF LIFE:-**

- Use within 2-3 weeks if no preservative is added.
- Store in a cool, dry place or refrigerated to extend shelf life.
- You can optionally add natural preservative (like Geogard ECT or Leucidal liquid) at 1-2% if longer shelf life.

➤ **STERILITY:-**

1. Humidity, medium acidity and appropriate minerals, Cosmetic product formulations used in cosmetic industry are quite convenient media for the micro organisms to live and reproduce.
2. Substances as carbohydrates, proteins, amino acids, vitamins, steroids, peptides, fatty acids, sugar and fat alcohols are the substantial food sources which support the reproduction of micro organisms.
3. When these factors are evaluated, the risk of micro organism contamination in cosmetic products is high and the presence of this risk affects human health significantly.
4. Gamma irradiation is a method used in cosmetic products to reduce the number of micro organisms. By means of this method, micro organism contamination is lowered below the specified levels.

➤ LABELING:-

1. **Product Name:** Clearly and prominently display the product's name for easy identification.
2. **Brand Logo:** Your brand's logo is its identity – it should be easily recognizable on the label.
3. **Product Description:** Briefly describe the product and its primary benefits. Use engaging language to entice potential buyers.
4. **Ingredients List:** Include a comprehensive list of all ingredients used in the product. This is crucial for customers with specific allergies or skin sensitivities.
5. **Directions for Use:** Clear and concise instructions on how to use the product ensure optimal results and customer satisfaction.
6. **Batch Number and Expiry Date:** These details are essential for quality control and product traceability.
7. **Net Weight/Volume:** Customers need to know how much product they are getting for the price they pay.
8. **Warnings and Precautions:** If applicable, mention any warnings or precautions related to the product's use. {19}

EVOLUTION OF MOISTURIZER CREAM

➤ Evaluation of moisturizing cream:

- Cream products were characterized by particle size, rheological measurements, pH, spreadability and in vitro occlusivity.

➤ Measurement of Particle Size:

- A laser diffraction particle size analyzer (Mastersizer Hydro MU 2000, Malvern Instruments) was employed for measuring the globule size distribution of the emulsion droplets. Briefly, the sample was dispersed in 0.2 micron filtered distilled water to obtain an obscuration of 5 – 15 %.

➤ Rheological Measurements:

- Brookfield Synchro-Lectric Viscometer (Model RVT) with helipath stand was used for rheological studies. The sample (50 g) was placed in a beaker and was allowed to equilibrate for 5min before measuring the dial reading using a T-D spindle at 0.5, 1, 2.5, and 5 rpm. At each speed, the corresponding dial reading on the viscometer was noted. The spindle speed was successively lowered and the corresponding dial reading was noted. The measurements were carried in triplicate at ambient temperature. Direct multiplication of the dial readings with factors given in the Brookfield viscometer catalogue gave the viscosity in centipoises.

➤ In-vitro Occlusivity Test:

- Beakers of diameter 3.2 cm and height 4.6 cm were used. The test was performed by placing 10 g of distilled water in each beaker and closing the open end with Whatman Filter Paper (0.45 pore size) on the upper surface of which 200mg of the sample was evenly distributed. These beakers were then placed at $37 \pm 2^\circ\text{C}/607 \pm 5\%$ RH for 48 hours. The samples comprised of 7.5% RBW cream, 15% RBW cream, liquid paraffin, and a negative control where the filter paper was kept uncovered.

- The occlusion factor F was calculated

➤ **PH Measurement:**

- The pH of the 10 % w/v cream suspension was determined at 25°C using a pH meter (pH Tutor, Eutech Instruments), standardized using pH 4.0 and 7.0 standard buffers before use.

➤ **Spreadability5:**

- The spreadability of test samples was determined using the following technique: 0.5 g test formulation was placed within a circle of 1 cm diameter pre-marked on a glass plate over which a second glass plate was placed. A weight of 500 g was allowed to rest on the upper glass plate for 5 minutes. The increase in the diameter due to spreading of the test formulation was noted.

CONCLUSION

➤ Moisturizers are often used for both healthy and diseased skin, bridging the gap between medicine and consumer goods. The ability to tailor particular agents to specific dermatological needs will be critical in the future of moisturizer therapy. Knowing the characteristics and interactions of active ingredients with the skin will allow for better utilization of available moisturizers. Dermatologists who have a thorough understanding of moisturizers and have the initiative to explain the importance of moisturization to their patients may improve patient compliance. It is important to keep in mind that moisturizer formulas do not come without flaws. Patients who apply moisturizers on a regular basis can develop contact dermatitis, which is often caused by preservatives or fragrances used in many commercial products. Hence, dermatologists should weigh the risk of allergenicity and irritancy against cost, availability, and customer preferences for patients with sensitive skin or established skin conditions. Author Contributions: Conceptualization, S.M.M.; methodology, S.M.M. and J.A.; software.

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