

**A REVIEW: - FORMULATION AND EVALUATION OF HERBAL LOTION**

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**ABSTRACT: -**

*The demand for standardization and the makeup of herbal products in daily life are the main topics of this essay. The best results in our daily lives will come from the composition of herbal products, as the Composition of each unique product on its own. Applying lotions straight to the body results in their semi-liquid form. Moisturizing lotion is a semisolid preparation that fights wrinkles and lowers the risk of skin issues. There were no negative effects from the herbal lotion composition. Aloe Vera gel and honey are combined to create a herbal lotion that not only nourishes skin but also functions as an antioxidant, antibacterial, and anti-inflammatory. The manufactured lotion is regularly tested for irritation, acidity, and pH. Aloe Vera gel's moisturizing properties are used to prevent sunburn and acne in addition to preventing dry skin in the summer and winter. The herbal lotion is safe to use on skin because it passes all assessment tests and has no negative effects*

**Key Words: -**Herbal lotion, Honey, Aloe Vera gel, Coconut milk.

**INTRODUCTION: -**

The natural components used in cosmetic products are incorporated into herbal formulations. The herbs' characteristics are widely recognized. For instance, aloe vera, turmeric, etc. The best ayurvedic herbs are also indicated by the fact that ayurveda was developed in India by Rishis. Ayurveda has proven the efficacy of the herbal formula. Herbal medicines provide the body with essential minerals and other nutrients. A herbal lotion that can provide skin with efficient protection and is devoid of all toxins. Considering that they are safer to use and natural than formulations based on chemicals. Semi-liquid lotions are made of it. Applied straight onto the body. Rich in saffron, coconut milk, honey, and aloe vera are beneficial for nourishing the skin and preventing dryness. The substances referred to as Herbal lotions are phytochemicals obtained from various plants that have an effect on skin diseases and provide the necessary nutrients for good-looking skin. The family Meliaceae consists of the Neem (Azadirachta indica) tree species. The medicine is obtained from its bark, seeds and leaves. Leaf neem is used in cure a range of illnesses, such as intestinal worms, bloody noses, and leprosy stomach issues, loss of appetite, ulcers on the skin, diabetes, fever, and heart disease, liver problems as well as gingivitis.

**Types of Lotion**

There are several varieties of body lotion on the market, including the following

1. body lotion for dry skin care
2. gentle body lotion for caring for the skin

### 3. All-purpose lotion for the body.



**Fig.1:- Lotion**

#### ➤ **Lotion Benefits and Market Potential**

Body lotion has numerous advantages for those who take the time to apply it frequently:

- Resupply any particularly dry or rough areas of the skin.
- Your body's roughest areas should be softened.
- It is applied to stop cracked skin, lips, and heels.

#### **Advantages Of Lotion**

- **Suitable for broken skin as well**
- **No initial metabolic pass**
- **Portable and simple to use**
- **Better for people who have difficulty swallowing**

#### **Disadvantage Of Lotion**

- Insufficient drug permeability to the dermal layer
- For lotions that are emulsion or suspension types, the container must be shaken before use.
- Babies that are placed on hands can swallow

#### **Nature**

The skin is a complex organ that gives the body sense abilities, defense against infection, and environmental exposure<sup>3</sup> The largest organ in the body, the skin serves a variety of purposes. It has immunological and sensory qualities in addition to being a physical barrier<sup>2</sup>

### Skin Care Treatments

Coco based Vera oil Sunscreen, hydrate Make clean Steer clear of smoke Hydrate and eat a balanced diet <sup>3</sup> For example, Dry skin: There are causes for dry skin besides underlying medical conditions. Dry environments, frequent hand washing, dehydration, swimming in chlorinated pools, and physically demanding jobs like farming or mechanics are a few examples <sup>4</sup>

#### TREATMENT OF DRY SKIN

##### Self -treatment:

To relieve dryness, try using a humidifier and a thick moisturizer. Dry lips and skin can also be relieved by abstaining from alcohol, caffeine, and tobacco <sup>5</sup> If you consult a physician. Despite your best efforts, don't get better. See the redness. Feel parched and itchiness that keeps you from sleep<sup>6</sup>

##### Applications

cooling, smoothing, moisturizing, and softening the skin scabicial, local anesthetic, cleaning, protective, antipyretic, antiallergic, antiseptic, humectant, astringent, antiacne, and anti-inflammatory Germicide, Parasiticide, Fairness, anti-aging, anti-wrinkle, and antifungal properties.<sup>7</sup>

#### THE INGREDIENTS AND THEIR FUNCTIONS IN THE CREATION OF HERBAL BODY LOTION:

##### 1.Curcuma:

It is a member of the Zingiberaceae family.



Fig.2:- Curcuma

##### Uses Of Curcuma: -

1. luminous skin
2. increases healing
3. could improve other skin conditions
4. a food additive, curry spice, and nutritional pigment.

## 2. Honey

Honey is another name for apis. It is a member of the Apidae family.



**Fig.3:- Honey**

### Utilize Of Honey

- Excellent hydrator
- Claw cleanser
- antimicrobial
- Diabetes

### **OTHER HERBAL DRUGS ARE USED IN LOTION**

#### 1.Coconut Milk

Coconut milk is high fat content



**Fig.4:-Coconut milk**

## Uses

- coconut milk works wonders for moisturizing dry skin when applied topically.
- It also functions as a sealant to trap in moisture and hydrate the skin.
- The smoothest skin cells are easily absorbed, and the fats preserve the elasticity of your skin.
- .It is the perfect body moisturizer, leaving the skin feeling textured and smooth.<sup>8</sup>

## 2. Saffron

It comes from the *Crocus sativus* flower. Saffron, a scarlet thread similar to pistils, is thought to have come mainly from Greece.

- In order to treat tanned skin, the affected areas must be treated in order to brighten the skin.
- Saffron is useful for lightening skin.
- To enhance the skin's natural glow and brighten it.
- To treat conditions of the skin like acne Injury.

## 3. Almond oil

Almond oil is a hydrating emollient that can aid in skin smoothing and moisturizing. Since almond oil is lightweight and non-irritating, it is generally safe for sensitive skin



**Fig.5:-Almond oil**

## Uses

- It might strengthen immunity
- It might raise levels of good cholesterol.
- It might act as an antibacterial agent.
- It might possess antifungal qualities<sup>9,10</sup>

**MATERIAL AND METHOD:****Material**

We bought papaya, Tulsi, and neem from the community garden and the neighborhood market, respectively. gum and distilled water glycerine, lemon oil, rose oil, and tragacanth were assembled.

**METHODS**

1. Azadirachta indica extract:
2. Destroying the holy osmium:
3. Extracting Papaya Caricature:

**One method are explain****EXTRACTION PAPAYA CARICATURE:**

After chopping the Remove the seeds and chop the banana. Next, a mortar and pestle were used to pulverize the pieces. Following a fine grinding process, it was put in a beaker with 100 milliliters of ethanol and allowed to macerate for 25 to 30 minutes.

**FORMULATION TABLE:****TableNo.1:- Materials used in making Poli Herbal Skin Care Lotion**

Sr No.	Ingredients	Quantity	Uses
1	Neem powder	3mg	Neem extract helps with anti-aging, wound care, and preventing skin infections
2	Glycerine	2ml	Humectants in their use.
3	Lemon oil	1.5ml	as an antimicrobial agent
4	Rose oil	Q>S	utilized to create aroma
5	Tragacanth gum	4.5mg	utilized as a stabilizer and emulsifier

**PHYSICOCHEMICAL PARAMETERS:****1. Spreadability:**

After excision, the skin was used within a week. Skin sheets with a diameter of approximately 1 cm were cut to the proper sizes and. Subsequently, the membrane was positioned between the two diffusion cell compartments, with the dermal side immersed in.

**2. Test of Irritation:**

After excision, the skin was used within a week. Skin sheets with a diameter of approximately 1 cm were cut to the proper sizes and subsequently, the membrane was positioned between the two diffusion cell compartments.

### 3. Test for Microbial Growth:

This alkali is quite similar for to what human epidermis has. A magnetic stirring bar was used to stir the receptor fluid at 500 rpm While a water jacket was used to maintain the warmth Care was taken to ensure that there were no bubbles between the skin's underside

### 4. Acid Value:

After excision, the skin was used within a week. Skin sheets with a diameter of approximately 1 cm were cut to the proper sizes and Subsequently, the membrane was positioned between the two diffusion cell compartment with the dermal side immersed in PBS was added to the donor compartment, and . This alkali is quite similar for what human epidermis has.

#### RESULT: -

Coconut oil, rose water, honey, glycerin and aloe vera gel are just a few of the ingredients that were used to formulate the herbal body lotion. Aloe vera is composed of moisturizing and antimicrobial qualities shield the skin from microbiological deterioration and skin moisture. Glycerin possesses anti-aging characteristic. The herbal body lotion was assessed using a number of criteria. such as spreadibility, Acid value and physiochemical parameter., utilized to Verify the formulation's effectiveness and quality. The effect of various formulation ingredients was. The formulation's physiochemical characteristics include its semi-solid state, pleasant odor, and white color. The formulation has a neutral pH and good washability.

#### CONCLUSION: -

Herbal remedies can partially replace synthetic bases and are superior at relieving dry skin. Natural cosmetics must be promoted by the dermatologist. As this chemical is easily applied to the exterior of the body to provide efficient absorbing. Due to its nature, the skin lessens negative effects. on the exterior of the body. It takes herbal remedies to fulfill the demands of the global market. Notably, plant-based compounds possess unique and noteworthy activities. A mixture of herbal lotion was created and evaluated in this research The. main goal of this study is to formulate a herbal body lotion. supply essential nutrients to maintain healthy skin. There are a lot of natural herbs out there, and they're all beneficial in skincare formulas because of their distinct properties, particularly as antioxidants. According to the study, herbal cosmetics are risk-free and harmless. Skin issues are avoided with herbal lotion. Cosmetics usage is higher in the personal care industry.

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