



Pharmaceutical Assessment of Aloe Vera Body Lotion: Formulation & Evaluation

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ABSTRACT:

Now-a-days, most occurring problem is skin dry, skin inflammation, redness and allergic problem. So, the main aim of the study is to reduce skin related problems and dryness and promote healthy skin and protective layer of skin to cover body. Plant based Aloe Vera body Lotion gives smoothness and moisturizes the body and reduce inflammation and allergic problems and keeps skin healthy and glowy. The Evaluation test result of Aloe Vera Body Lotion had shown better results as compared to Marketed Body lotion.

Keywords: Aloe Vera body lotion, Moisturizes skin, Pharmaceutical Assessment.

INTRODUCTION:

A Body lotion is a low-viscosity topical preparation intended for application to the skin. By contrast, creams and gels have higher viscosity, typically due to lower water content. Body Lotions are applied to external skin with bare hands, a brush, a clean cloth, or cotton wool, While a lotion may be used as a medicine delivery system, many lotions, especially hand lotions and body lotions are meant instead to simply smooth, moisturize, soften and perhaps perfume the skin.

It contains emollient and humectants as moisturizing ingredients and also contains vitamins and essential fatty acids to keep skin hydrated and protect its natural barrier Some examples of pharmaceutical body lotions include Aloe-Vera lotion, it has many medical uses due to its properties.

Aloe Vera lotions is preferred due to its non-oily, non-sticky texture, simple absorption into the skin, and lack of Odour. This chemical reduces pain, inflammation, and burning when applied topically to sunburn and other burns. Additionally, its speed wound healing.

MATERIAL AND METHOD:

PREPRATION OF ALOE VERA EXTRACT:

Firstly, collect raw formed Aloe Vera direct from the Aloe Vera plant ,then collected white extract blended into a blender and placed in to a vessel for boiling purpose so that removes all the impurities and dirt from the exact. and allow it for cool and shifted into a jar for experimental purpose.

OTHER EXCIPIENTS:

1. Aloe-Vera: It has moisturizing property soothes burns.
2. Honey: It mainly used as a preservatives including its anti-inflammatory, antioxidant properties.
3. Almond oil: Improves skin texture.
4. Rosewater: It mainly used as per fumeagent.
5. Glycerin: It used as Humectant It treated acne and scars.
6. Stearic acid: It having Emulsifier property.
7. Vitamin E: Used as Antioxidant.

PREPRATION OF LOTION:

- Add measured amount of Aloe-Vera gel into mixing bowel.
- Then add other ingredients such as glycerin, distilled water and rosewater. Aqueous phase was prepared.
- Weigh7gms Stearic transferred into a beaker, put in the hot electric water bath.
- Measured3ml Almond oil, poured into beaker with continuous stirring to prepare the oil phase.
- Then, add vitamin E due to Antioxidant properties. Lastly add honey as a preservative agent
- Mix all the phases vigorously and lotion was prepared.

COMPOSITION TABLE:**Table1.Composition of Aqueous Phase:**

1.	Aloe-vera gel	25 ml
2.	Glycerin	2 ml
3.	Distilled water	Q.S.
4.	Rose water	Q.S.

Table2.Composition of Oil Phase:

1.	Almond oil	6 ml
2.	Stearic acid	7 gm
3.	Honey	Q.S.
4.	Vitamin E	Q.S.

EVALUATION TEST:

1. Organoleptic properties: Visual inspection methods are used to evaluate the organoleptic properties of the body lotion like. Color, Odor, and state etc.
2. Absorption Test: Absorption test was done by applying the lotion on to the selected area of skin and rubbed until it gets completely absorbed.
3. Skin Irritancy Test: The irritation test was done by applying a formulation on to the selected area of skin and leave it for 15 to 20 minutes to check irritancy of skin such as itching and redness effect.
4. Homogeneity : Homogeneity test was assessed by visual inspection of lotion which placed on glass slide and touch.
5. pH Test : The pH value of this purely herbal Lotion was determined by using digital pH meter.

6. Spread ability Test: Measure the spreading diameter of 1gm of sample between two horizontal glass slides after 1min.

7. Smoothness Test: Examined with necked eye like texture and appearance and through touch examination.

8. Washability Test: Washability test was carried out by applying a small quantity of lotion on the hand and then washing under tap water.

RESULT:

Test	Formulation	Marketed
Colour	Slightly Green	White
Odour	Pleasant	Pleasant
Texture	Smooth	Smooth
State	Semisolid	Semisolid
Absorption	Well absorbed	Well absorbed
Skin irritancy	No irritancy effect	No irritancy test
Homogeneity	Good	Good
Ph	7(mildly acidic)	8(mildly acidic)
Spread-ability	Easily Spread	Easily Spread
Smoothness	Good	Good
Washability	Easily Washable	Easily Washable
		But gives oily stain

CONCLUSION:

Herbal substances alleviate skin dryness better than synthetic bases and may partially replace them. Naturally made lotion formulations are needed to meet global market demands and Dermatologist and Cosmetologist must promote the herbal formulations.

Notably, natural compounds have Safe as well as significant activities. Lab prepared lotion composition was developed and tested in this investigation. Also done Organoleptic aspects which contains color and odor as well as physiological tests like pH, Irritancy, Washability and Smoothness and absorption rate. The main focus of this study is to Provide important nutrients for skin. Many other natural ingredients are available, each having unique excellent properties that make them useful in formulas, especially as antioxidants.

Also, the safe and do not cause any harm effects to the body.

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