



# Formulation and evaluation of herbal cleansing bufflets

<sup>1</sup>Barot Yash, <sup>2</sup>Sisodiya Abhay, <sup>3</sup>Jaiswal Jay, <sup>4</sup>Kajal Sahu

Student b. pharmacy college, Rampura  
Assistant professor, B. pharmacy college, rampura

**Abstract:** This abstract presents the formulation and evaluation of herbal cleansing bufflets. With the growing concern for hygiene and the desire for natural products. In this study, herbal cleansing bufflet was formulated using a combination of natural extracts known for their antimicrobial properties. The formulation comprised extracts of Orange-peel powder which were carefully selected for their potential to combat germs while being gentle on the skin.

The formulated herbal cleansing bufflet underwent rigorous evaluation to assess its efficacy and safety. The antimicrobial activity of the cleansing bufflet was evaluated against a common bacterium Ecoli. The results demonstrated significant inhibition of microbial growth, highlighting the effectiveness of the herbal extracts.

Further evaluations were conducted to assess the cleansing bufflets physical properties, including pH, colour, Oduor, and sensory attributes. Additionally, skin compatibility tests were performed to ensure the product's safety and non-irritating nature.

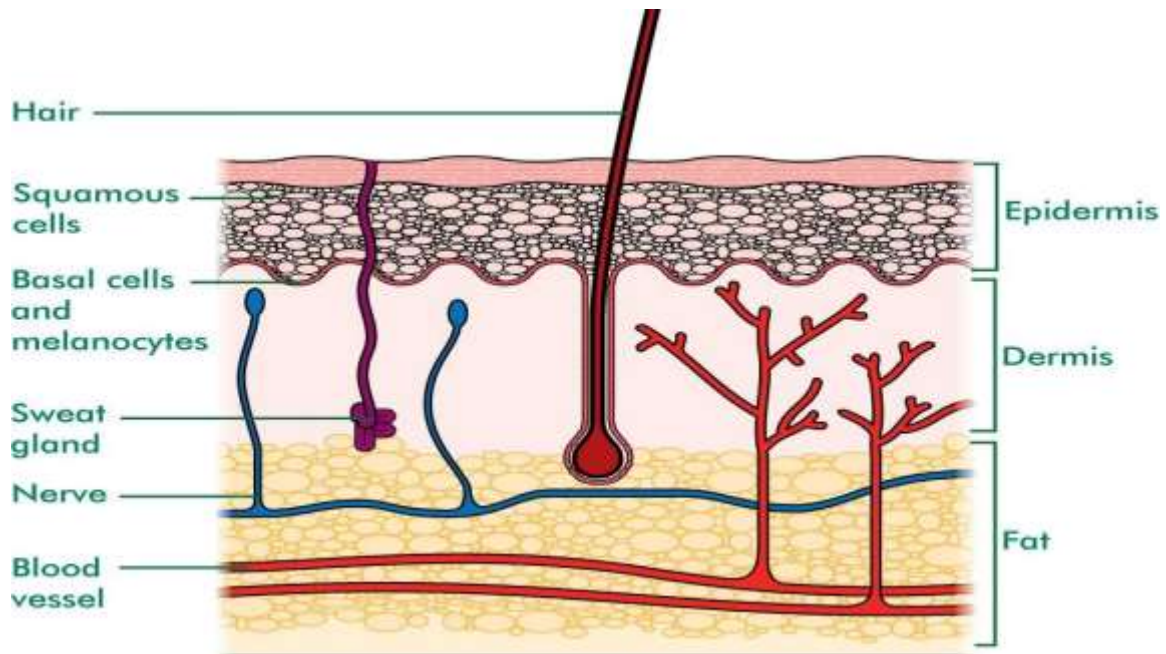
Keywords: Antimicrobial,herbal extracts, sensory attributes,non-irritating nature

## 1.INTRODUCTION

Our skin is a largest organ on our body made up of different component including water, protein, lipid, and minerals. Throughout our life, our skin will change constantly, for better or worse. Our skin regenerates itself approximately every 27 days. So proper skin care is essential to maintain healthy skin.

There are four layers of skin:

1. Stratum corneum:
2. Epidermis:
3. Dermis:
4. Subcutaneous



**CLEANSING BUFFLETS:** - Cleansing bufflet is the products which are used to cleanse face without drying it out. Cleansing bufflet is also commonly known as “cleanser”. Cleansing bufflet product found to be equally good for all skin type. Cleansing bufflet is very helpful in removing dirt, oil and provide moisture to the dry skin. Both cleansing bufflets & facewash are used to rid your face of dirt, oil, pollution, etc. They can be removed by a face wash too, but that might be not 100% effective.

Facial skin is the delicate and ordinary soaps can cause it to lose moisture. A cleansing bufflet is a mild cleanser that does the vital job of keeping skin clean, germ free smooth and fresh and moisturizes the horny layer without any harshness to the skin. So that skin looks young and energetic. The purpose of cleansing bufflet may be to impart cleansing, anti-wrinkle effect, anti-acne property, moisturizing effect and fairness of skin. Skin whitening agents are believed to act on the production and metabolism of melanin of the skin by inhibiting melanin production in melanocytes, reducing extent of melanin. The agent which inhibits melanin production, such as propanediol, Evodia rutaecarpa fruit extract, arbutin, kojic acid, vitamin C and its derivatives are used in the whitening cosmetic because of their low toxicity to melanocyte.

A facewash is a skincare product designed to cleanse the skin by removing dirt, oil, makeup, and other impurities from the face. It plays a crucial role in maintaining healthy and clear skin as part of a daily skincare routine. Unlike regular soaps, facewashes are formulated to be gentle on the delicate skin of the face and are often enriched with ingredients that target specific skin concerns such as acne, dryness, or oiliness.

Research Through Innovation

## 2.INGREDIENTS

### 1.1 INGREDIENTS USED ALONG WITH ITS BENEFITS:

#### 1) Orange peel powder:

**Biological name:** Citrus sinensis

**Family:** rutaceae

**Benefits:**

- It is beneficial for skin due to vitamin C and antioxidant content including brightening and exfoliation or antibacterial properties, Moringa leaves helpful in preventing breakdown on your skin.
- It has anti-inflammatory properties.

#### 2) Watermelon seeds

**Biological name:** Citrullus lanatus.

**Family:** Cucurbits

**Benefits:**

- Moisturize the skin
- Reduce acne
- brighten the complexion

#### 3) Cinnamon

**Biological name:** Cinnamomum verum

**Family:** laureaceae family

**Benefits:**

- Anti-inflammatory that helps in relieve pain and swelling in wound.
- Helps to treat acne.
- Improves skin texture
- Brighten the complexion



#### 4) Rose oil

**Biological name:** Rosa damascena

**Family:** Rosaceae

##### **Benefits:**

- Balance natural oil in the skin.
- It can help reduce temporary appearance of redness.
- Natural hydration.
- It can help to unclog pores and create a smoother look.
- It helps to remove impurities and prepares your skin for success.

#### 5) Moong dal Powder

**Biological name:** Vigna radiata

**Family:** Fabaceae

##### **Benefits:**

- It helps in cleaning the skin
- Exfoliation and brightening

#### 6) Beeswax

**Biological name:** Cera alba

**Family:** Apidae

##### **Benefits:**

- Smooths the skin
- Whitens the skin

#### 7) Aloe vera Juice

**Biological name:** Aloe barbadensis

**Family:** Asphodelaceae

##### **Benefits:**

- reduce swelling
- Speed wound healing
- Release of collagen



### 8) Reetha

**Biological name:** sapindas mukorossi gaertn.

**Family:** soapberry.

Benefits:

- natural cleanser
- remove dirt, excess oil

### 9) Sesame oil

**Biological name:** Sesamum in dicum l.

**Family:** Pedaliaceae

Benefits:

- gently removing accumulated sebum Dead skin, dirt, oil soluble toxin.

## 3.METHOD USED IN FORMULATION

Method:

Take all the powders as mentioned quantity in above slide in a beaker



Mix them well



Then take all the oils as mentioned quantity in beaker 2



Mix them well



Add bees wax in beaker 2 with oils



Heat In waterbath till the bees wax gets melted



Then cool it down



Add the powders which are mixed up in beaker 1 to beaker 2



Mix them well and cool it down



Fill the mixture in the Molds



Then store it in cold storage for a day

#### 4) EVALUATION PARAMETERS

Following evaluation test were performed to ensure superiority of prepared cleansing bufflet.

##### 1. Organoleptic evaluation:

The organoleptic evaluation includes:

Colour: dark brown

Odour: pleasant

Texture: smooth



##### 2. Physical evaluation:

Physical evaluation test of face wash includes:

**2) Washability:** Formulation was applied on the skin and then ease and extent of washing with water were checked manually.



**pH:** pH of this cleansing buffet was measured by pH paper and it was found to be 6.7.

**1.1 Consistency:** the cleansing buffet was hard without the use of water.

**3. Foamability test:** Foamability: a cleansing buffet was taken and rubbed on hand to check the foamability.

**4) Skin irritancy:** herbal cleansing buffet was applied on the human skin and observed the effect.



## RESULT AND DISCUSSION

### 1) Organoleptic evaluation

Color	Dark brown
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Oduor	Pleasant
Texture	Soft

## 2) Physicochemical evaluation

Washability	Washable
pH	6.7
Spreadable	Easily spreadable

## 3) Foamability test

Foamability	Easily produced foam
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## 4) Skin irritation test

Skin irritation	No irritant
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## 5) Microbial test

Microbial test	Anti-microbial
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## CONCLUSION

A formulated herbal cleansing bufflet containing orange peel powder, watermelon seeds, cinnamon powder, Reetha powder, mug powder, bees wax, rosemary oil, sesame oil, aloe vera juice.

This formulation is more acceptable in belief that it is safer as it is herbal and cleanse deeply into the skin. These bufflets can be used with different toner (diluter) as per your skin type. By this these bufflets can be suited for all skin type. These bufflets may also contain scrubbing properties and remove dead skin and dead cells. Long time use may treat various skin problems and may leads to healthy skin.

It is new form of cleansing product as it is for single use and reduce contamination. Very less or no more similar products are available in the market. Also travel friendly and good for sharing.

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