



Development of Nanolipo Lip Gloss

^{1*}Ashvini A Wagh, ^{2*}Kaveri V Dhanwate, ^{3*}Kalyani B Dongare, ^{4*}Prof Gargi Kirloskar.

Matoshri Institute of pharmacy, Dhanore Yeola, Dist – Nashik Maharashtra

Abstract:

The usage of natural dyes and scents has grown dramatically over the last few decades. The majority of cosmetic ingredients have recently been replaced with those obtained from natural sources in an effort to lessen the serious harm caused to the Synthetic compounds affect the human body. This ensures maximum efficacy and lowest side effects. To improve the quality and variety of lipsticks and lip glosses, medicinal properties including neem, aloe vera, amla, and turmeric can be used.

Keywords: Lip gloss, Shata Dhauta Ghrita, Dragon Fruit.

Aim -Formulation and development of nano lipo lip gloss using Shata dhauta Ghrita and Dragon fruit Peel powder.

Need -

1. Aim Up Your Look In Minutes :

Need a quick makeup fix Grab a lip gloss. Applying a thick layer of gloss on your lips adds a Glam, chic look to your look. It works great for both no makeup looks and full glam looks.

2. Comes in a Variety :

Lip glosses are versatile and available in a variety of colours. These glosses go well with every look, whether it's neutral, nude, red, or metallic.

3) Highly Moisturizing:

Lip glosses eliminate chapped lips and replace them with moisturised lips. Lip glosses moisturise and protect the lips from wind, cold temperatures, and UV radiation, reducing inflammation and promoting healing.

4) Pocket Friendly:

Lip glosses are far less expensive than lipsticks and perform equally well.

❖ Objective:

- ✓ Improves lip luster
- ✓ Increases plumpness and smoothness
- ✓ You can add hue and colour to your lipstick.

Introduction:

Lip gloss is a product that is generally used to give lips a glossy lustre and, in some cases, to add faint colour. It is spread as a fluid containing a soft solid. The product is offered in different opacity ranges. From translucent to solid, the finishes can be frosted, sparkly, glossy, or metallic. (1) Cosmetics play an important function in today's lifestyle. Furthermore, almost every industry, including cosmetics, is moving towards a more natural way of living. Natural food, herbal treatments, and natural cures are preferred choices for a healthy existence, and organic vegetable products are in high demand. The use of herbal cosmetics has expanded dramatically in the personal care system. (1) (2) For thousands of years, natural products have been used as folk medicine all across the world. Many of them have pharmacological activities, including antibacterial, anti-inflammatory, and cytostatic actions. They have been identified as valuable in human medicine. Herbal extracts are widely grown around the world and are well-known in the horticulture industry. Cosmetics derived from natural extracts for skin and hair care are quite popular due to their dependability. There are many different formulations of herbal cosmetics available. The term herbal denotes safety as opposed to synthetic products, which have a variety of negative impacts on human health. (3)



Fig 1: Lip Gloss

✦ **History of nanolipo lip gloss:**

Cosmetics specifically for females who appear in black and white films. Movie actresses inspired women to follow this makeup trend. This contributed to the popularity of lip gloss. Max Factor's X-Rated was the first commercially marketed lip gloss, introduced in 1932. The original recipe was available until 2003, when Procter and Gamble discontinued the product. [4] In 1973.

Lip Smackers came in two sizes: small and large. The small ones could be stored in a pocket, while the larger ones included a rope to hang around the neck.

✦ **Application of lip gloss**

- Lip glosses defend against dryness and environmental factors.
- Companies such as The Body Shop, Nivea, Himalaya, and Blistex offer chemical-based lip balms.
- The cosmetic literature reports limited data on this type of formulation, although References related to lipstick apply because it is a cosmetic form similar to lip gloss.
- To formulate lip gloss, it is necessary to balance the concentration of the main Ingredients including butters, oils and waxes and other excipients.
- Many people seek weekly facials, daily skin scrubs, anti-aging lotions, and many other Products to ensure they have healthy and glowing skin.
- The dyes that contribute to the color of the lip balm are dangerous to humans on Consumption. (5)

❖ **Advantages:**

- Gloss adds shine and can be used alone or with lipstick.
- It's a terrific way for teen girls to learn about lip colour.
- No need for lip liner.
- Easy to reapply and carry.
- Gloss comes in a number of exciting colours and flavors.
- Many affordable brands available.

❖ **Disadvantages**

- Sticky lips make the wind your enemy as every flyaway hair becomes plastered to your Face.
- You're almost guaranteed to leave your mark on every cheek and coffee cup your lips Touch.
- In the professional world, shine can look immature rather than polished.
- Lip gloss rarely provides deep, intense colors.
- It should be noted that most of these disadvantages may be avoided by purchasing high quality lip gloss brands.
- Dangerous chemicals – Certain lip products include dangerous chemicals that can cause

❖ **How Do Lip Makeup Products Affect Human Lips?**

Lip makeup products are mostly utilised for their colour. Furthermore, they could have There are other benefits and downsides.

• **Certain lipsticks:**

Lipsticks, particularly long-wearing ones, tend to dry out the lips. Silicones in the ingredients are responsible for this. These chemicals help the colour stick to the lips.

Lip plumping lipsticks with Menthol and Camphor may also induce dryness.[3] Other factors that may contribute to the development of dry lips include nasal obstruction, mouth breathing, and dentures that do not fit well (common in the elderly).

❖ Most Common Problems associated with lips:

➤ COLD SORES –

Cold sores can develop for a variety of reasons, including sun exposure, dietary changes, trauma, menstruation, and even our daily worries. Its symptoms include a tingling or prickly sensation, followed by tenderness in the area, and only then does it develop into a blister. (4)

➤ LIP DRYNESS

Lip dryness can be caused by a variety of factors, including the weather, an allergic reaction to our lipstick or lip gloss, dehydration, or just about anything. A nice moisturising lip balm will assist our lips heal faster. [5]

➤ CHAPPED LIPS

Chapped lips occur for identical causes to lip dryness. Causes of chapped lips include dehydration or the weather (winter, sitting in an air-conditioned room for an extended period of time), constant lip licking (which eliminates our lips' natural moisture, drying up your lips), and even too much sun exposure. A decent lip balm, ideally with a high SPF, could assist your lips heal. [6]

❖ Lip Disorders:

➤ Swelling:

An allergic reaction can cause the lips to enlarge. The reaction could be triggered by a sensitivity to specific foods or beverages, medicines, cosmetics, or airborne allergens. When a cause is recognised and then eliminated, the lips typically revert to normal.

➤ Sun Damage:

Lips, particularly the lower lip, may become dry and hard due to sun damage. White or red specks Damage indicated by a filmy appearance raises the risk of developing cancer later on. By protecting the lips or applying a lip balm with sunscreen, this kind of damage can be lessened.(9)

➤ Discoloration:

Freckles and regularly, shaped brownish areas (melanotic macules) are common around the Lips and may last for many years. These marks are not cause for concern, Multiple small, Scattered brownish black spots may be a sign of a hereditary disease called Peutz-Jeghers Syndrome, which polyps form in the stomach and intestines, Kawasaki disease, a disease of Unknown cause that usually occurs in infants and children 8 years old or younger, can cause Dryness and cracking of the lips and reddening of the lining of the mouth. (8)

➤ Sores:

Skin cancer may be the cause of a raised spot or a lip sore with sharp various sores may appear as signs of various illnesses, like syphilis or an infection with the oral herpes simplex virus. The cause of some others, such keratoacanthoma, is unknown. (9)

❖ TYPES AND DEFINITION OF LIP MAKEUP PRODUCTS

There are several different types of products available in the market that can be applied to the Lips for various .

1. LIP GLOSSES:

These are designed to give the lips a glossy luster and sometimes, subtle color. They usually Have a lower viscosity than traditional.



Fig 2.Lip gloss

2.Lip mask:

A lip mask deeply replenishes hydration, softens the look and feel of the skin, and can Oftentimesgive lips a juicy, plumped appearance.



Fig 3: Lip Mask

❖ **Excipient used in nano lipo lip gloss:**

1. Olive oil:
2. Shata Dhauta Ghrita
3. Dragon fruit peel powder
4. White paraffin wax
5. Vitamin E

1.Olive oil –There are many beneficial monounsaturated fats in olive oil. The natural oil that is extracted from olives, which are the fruit of the olive tree, is known as olive oil. While polyunsaturated fats like omega-6 and omega-3 fatty acids make about 11% oil, saturated fat makes up about 14%. However, oleic acid, a monounsaturated fatty acid that accounts for 73% of the oil's total content, is the main fatty acid found in olive oil. Research indicates that oleic acid lowers inflammation and may even help genes linked to cancer.

2. Shata Dhauta Ghrita

Ghee is derived from the Sanskrit word ghr', which meaning "bright" or "to make bright." It is often made from cow, buffalo, or mixed milk [4,5]. Because of its unique capacity to penetrate the deepest tissues, ghee is regarded as a perfect base for the Cow ghee, known for its regenerative powers and ability to promote healthy cell growth, is commonly used to treat wounds from heat or fire, painful ulcers, bug bites, herpes, and leprosy through topical application.



Fig 4: Shata Dhauta Ghrita

➤ **SHATA DHAUTA GHRITA**

Drug profile:

Color: Whitish

Odor: Odorless

Taste: Tastless

❖ **Pharmacological activity:**

It is easy to digest since it contains approximately 8% fewer saturated fatty acids than other foods. These are the most often used edible fats, and none of the other edible oils and fats contain them. It contains vitamins, such as vitamins A and E, which are anti-oxidants and help to decrease blood pressure, as well as ketone bodies, which protect the body from oxidative damage.

3. Dragon fruit peel powder

Dragon fruit (*Hylocereus polyrhizus*), also known as Pitaya, is gaining popularity as a health-promoting product. It is often used in food for nutritional and decorative purposes. The pulp in the *Hylocereus* genus ranges in colour from white to red to purple, with red and yellow peel. The red colour obtained from *Hylocereus* sp. Fruit is popular on the market due to its health benefits and appealing colour. Dragon fruit is gaining popularity due to its high vitamin content and phenolics, which have antioxidant and antiproliferative properties. It also has an appealing colour. The pulp is commonly served with fresh fruit, while the juice is used to colour ice cream. It has anti-inflammatory and antidiabetic effects that can decrease cardiovascular diseases and prevent cancer. Dragon fruit juice is created to meet consumer demand for a natural beverage.



Fig 5: Dragon Fruit peel powder

4. White paraffin wax:

Paraffin wax has potential therapeutic use. Some salons and spas use it to soften skin or relieve discomfort in joints and muscles. White paraffin wax has two main benefits: it moisturises or softens the skin, and it can be used in heat therapy.



Fig 6 : White paraffin wax

5 Vitamin E :

Proper function of many organs in the body. It is also an antioxidant. Vitamin E that occurs naturally in foods (RRRalpha-tocopherol) is Different from man-made vitamin E that is in supplements (all-rac-alpha-tocopherol).



Fig 7: vitamin E

Methods:

➤ preparation of shat dhauta ghrita :

The first stage is to make 'Shata-Dhauta' ghrita. The 'Shata-Dhauta' Ghee was produced using a long-forgotten procedure described in Ayurvedic literature (7,10). In a nutshell, a laboratory agitator (REMI) was used to mix a specific amount of cow ghee (2.5 kg) and distilled water (1.5L) for 5-8 minutes in a previously cleaned copper vessel. Following that, the vessel's contents were allowed to settle before being carefully decanted to avoid ghee loss. To make "Shata-Dhauta" ghee, which was then stored in a tightly sealed container, a new slot of the same amount (1.5L) of distilled water was added to previously cleaned cow ghee.

➤ Preparation of dragon fruit peel powder:

The pharmaceutical laboratory at Matoshri Institute of Pharmacy acquired fresh and entire dragon fruits from the local market. Fruits were scrubbed clean under running water and dried with a cloth. The peels were then removed off the fruits, chopped into little pieces, and dried in the shade for 6-7 days. Dried peels were ground into a powder for further use and analysis before being aerobically stored in sterile airtight plastic containers.



fig 8: preparation of dragon fruit peel powder

➤ Preparation of lip gloss:

The formulation of tinted lip gloss using the colorant from natural source was made while Paralline and shat dhauta ghrita were precisely weighed out and transferred to a flask. Coconut oil Quid was put in drops. Olive oil was added. The mixture was barely cooked in a water bath to prevent coagulation. Anhydrous lanoline is used to absorb moisture. A mixture of Alcohol, scent, and colour was mixed in certain proportions. Later, the mixture was transferred to a perform.



fig 9: formulation of lip gloss

➤ Formula :

Sr.no	Ingredients	F1	F2	F3	F4	F5	F6
1	Olive oil	1	-	0.5	1	1	0.5
2	Coconut oil	-	1	0.5	1	1	0.5
3	White paraffin	3	3	3	2	2	3
4	Anhydrous lanolin	0.5	0.5	0.5	0.5	0.5	2
5	Shata Dhauta	3	3	3	3	2	2

	grita						
6	Dragon fruit peel powder	1	1	1	1	1	1
7	Vitamin E	0.5	0.5	0.5	0.5	1	1
8	Methyl paraben	0.8	0.8	0.8	0.8	0.8	0.8
9	Propyl paraben	0.2	0.2	0.2	0.2	0.2	0.2

✦ Evaluation Parameter :

- 1.Organoleptic Properties
- 2.Determination of pH
- 3.Solubility test
- 4.Spreadability test
- 5.Skin irritation
- 6.Perform stability

Result And Discussion –

The manufactured product was evaluated, and it was determined that its composition and formulation were ideal, providing positive results. The objective to limit negative effects was successful, with the exception of beeswax and synthetic colours. The table below shows the results of the formulation evaluation of lip colourant.

Lip gloss formulation	Evaluation Parameter	Observation
F1 To F6	Visual Appearance	Megenta pink
	Phase separation	Nil
	Homogeneity	Good
	Spreadability	Good
	Skin irritation	No

SUMMARY AND CONCLUSION

The coloured lip gloss's formulation produced a glossy and smooth finish. It produces a glossy product that spreads evenly on the skin. Additionally, the formulation and colour tint were fairly stable. The formulation eliminates three detrimental effects of beeswax and synthetic colours, which can cause breast and uterine cancer. Avoid using the commercialised formulation. Dragon fruit has been linked to heart health benefits. Using a modest quantity of lip gloss inadvertently Consumption will cause no harm.

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