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# PREPARATION AND EVALUATION OF ROSE LIP BALM

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### Abstract:

Lip balm is one of the cosmetic preparations mostly used as moisturizer in winter season for dry lips. Lip balm increases the beauty of lips and moisturizes the lip and shine to the lips. Rose lip balm was prepared by extracting the rose oil. And the extracted rose oil was mixed with melted moisturizer base upon cooling it forms a solid consistency. All the ingredients used in this preparation are natural and gives pleasant odour, keeps lips for soft and gives light pink color. Coconut oil & olive oil is good for skin keeps moisture in a skin. Bees wax is also naturally occured material from bees. The natural oils present in the roses help in retaining moisture in the skin. Organoleptic characters, p<sup>H</sup>, melting point, spread ability, skin irritation and stability tests were analyzed & results were noted. Rose lip balm with many advantages like prevent dryness of lips, cracks. Rose petals are a good source of natural oils which are good for lips. The oil helps in making skin feel smoother & softer. Natural lip balm is safe for lips.

#### Key words:

Lip balm, rose oil, moisturizer, and dry lips.

# www.ijcrt.org INTRODUCTION:

Lip balm is a waxy like substance applied topically to the lips to moisturizer and relieves chapped or dry lips. During the winter nourishing the lips are real salvations, wind and cold are one of the main causes of dry and chapped skin including lips. The skin on our body is different from that on our lips. We have a lot layers on the lips, which gives them a characteristic pink colour. For that reason, lip care is extremely important with the best ingredients, with the loss of skin layers natural protection is also lost. By wearing lip balm protects our lips. In 1880 Charles Browne fleet an American physician and pharmacologist are credited with the world's first hand made lip balm.

### Bees wax:

Bees wax has been used as water proofing agent as an ingredient in cosmetics. It is used as thickening agent, emulsifying agent and stiffening agent in cosmetics. Bees wax can help to moisturize the skin. Bees wax is a natural emollient and helps to seal in moisture and protect lips from the sun, wind and prevent the skin from becoming dry and irritated. Bees wax has lubricating and softening activities. It also reduces the Trans epidermal water loss from skin. Bees wax for lips is very safe for use especially for dry and chapped lips. It forms a protective layer on the surface of lips. Bees wax for lip balm makes for the best ingredient as it gives the product the perfect texture with a solid like consistency. Bees wax can be used on its own or in combination with other ingredients such as coconut oil or cocoa butter to create a lip balm. It has anti microbial properties that can help to treat various skin conditions. Bees wax forms a protective layer on the skin that acts as a barrier against environmental toxins such as pollution and smog. Bees wax contains anti oxidants, vitamins and minerals that are beneficial for the skin.



Fig.no.1

#### www.ijcrt.org Coconut oil:

Coconut oil is edible oil extracted from the matured coconut and harvested from the coconut palm tree. A member of Aceraceae plant family. Coconut oil is different from other dietary oils because it is mainly composed of medium -chain fatty acids. About 50% of the medium chain fatty acids in coconut oil are a type called lauric acid which contribute to the oils anti- inflammatory, anti- microbial and anti-fungal properties.

The barrier created by coconut blocks bacteria and irritants from causing more damage. The lauric acis in cococnut oil has nourishing properties that keep in to skin. Some coconut oils absorb quickly providing moisture to heal dry, chapped lips. The primary benefit of coconut oil is its moisturizing effects. This makes it ideal for chapped lips. Coconut oil is also considered an emollient. Other benefits include the potential disinfecting and anti microbial effects of coconut oil such benefits may keep lips germ free and subsequently help protect any cracked skin from becoming infected too.





# Olive oil:

Olive oil is a liquid fat obtained by pressing whole olives. A traditional crop of Mediterranean Basin, and extracting the oil. It belongs to the family Oleaceae. It is rich in healthy monounsaturated fats, large number of antioxidants. Olive oil can be made by olives are crushed into a paste, which is put through a centrifugation process to separate the oil.

Olive oil has superior hydration relief from cracked and chapped lips. It works especially well during the winter, protecting the skin against the cold weather. Olive oil is an excellent moisturizer and common ingredient in many skin conditioning treatment and lip balms. Olive oil can help with chapped lips as it is full of anti oxidants and fatty acids such as oleic acid, amino which provide awesome hydration. It will support the health of the lips and assist in getting rid of dead skin cells from them.



Fig.no.3

# **Rose Petals:**

Rose petals can be used as an effective treatment for lightning dark lips. Rose petals are good source of vitamin C, iron, calcium, vitamin A. It exhibits a curious property known as hydrophobicity. Rose petals nourish, soften and lighten our lips naturally. Rose petals are good sources of natural oils which are good in lips. Exfoliates gently and impacts smooth texture.



Fig.no.4

Fig.no.5

# **MATERIALS AND METHODS:**

White bees wax was purchased from Yarrow chem products; Mumbai by St. Ann's college of pharmacy, coconut oil and olive oil purchased from vizianagaram local market, and rose flowers from near R & B market, vizianagaram.

# FORMULATION OF ROSE LIP BALM:

### Table No. 1

INGREDIENTS	QUANTITY (gram)	PURPOSE
White bees wax	26	Water proofing agent, emollient, thickening agent
Coconut oil	44.64	Emollient & moisturizer
Olive oil	24.6	Hydrating the cracked lips
Rose petals oil extract	4.76	Lightening lips

# Preparation of Rose oil extract:

Take fresh rose flowers. Separate rose petals from stalk. Wash with fresh water. Crush them in a mortar & pestle by adding little amount of oil. Extract the oil by double boiling method until oil separate from rose petals. Filter the mixture, store extracted oil in a container.



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# Procedure for preparation of Lip balm:

Required quantity of bees wax was taken and melts it. Heat the required quantities of coconut oil & olive oil in a beaker. Now add oils to melted bees wax solution. And finally add rose oil to it with continuous stirring. Pour the mixture in a container. Cap it after it solidifies.



# **EVALUATION TESTS:**

1) Organoleptic characteristics:

Observe the colour, odour, texture by visual inspection.

2) P<sup>H</sup> test:

Dissolve 1 gr of test sample in a 10ml of distilled water. Determine the  $P^{H}$  of the test sample by  $P^{H}$  meter.

# 3) Melting point:

Take a capillary tube. Filled with test sample through one end and seal the other end of capillary tube. Place the capillary tube in a melting point apparatus. Adjust the heater knob. Observe the melting point of test sample.

# 4) Spread ability:

Take a clean glass slide spread the test sample uniformly on a glass slide. And have to observe the test sample by whether it is spreading uniformly on the glass slide or not.

# 5) Skin irritation test:

Apply the test sample on a skin (dorsal side of hand) for about 2cm area. And then observe any irritation on applied site for up to 24hr and then reported.

# 6) Stability:

Place the test samples at different temperature zones for 14 days. Observe the stability of test sample by determining its physical characteristics, P<sup>H</sup>, melting point, spread ability and skin irritation.

# **RESULTS & DISCUSSION:**

Evaluate the rose lip balm by different evaluation tests. The observed values are listed below table.no.2 & 3

# **Product characteristics results:**

# Table No.2

Test		Observation	
Colour Lemon y		Lemon yellow	
Tragrance Pleasant rose fragrance		Pleasant rose fragrance	
Texture		Very smooth and soft	
<b>Evaluation test results:</b> <u>Table No.3</u>			
Test		Observation	
P <sup>H</sup>		6.5	
Melting point		36°c	
Spread ability		Uniform spreading	
Skin irritation		No irritation	
Stability		Pass	

# **CONCLUSION:**

Rose lip balm nourishes the lips and help to get moisturize and protects lips effected by dryness and cracks. Moisturizer for cracked or dried lips for winter season was prepared by rose petals. The oil was extracted from rose petals mixed with melted moisturizer base upon cooling it forms a solid consistency. Different evaluation tests were conducted to prepared lip balm and results were observed. Rose lip balm was in lemon yellow color, which gives beautiful aroma of rose and its texture was smooth and soft. The P<sup>H</sup> was 6; melting point was 36°c, no skin irritation, and good spread ability. Stability test also passed at different climatic conditions. The evaluation test gives the best results in physical characters, P<sup>H</sup>, melting point, spread ability, skin irritation and stability. So the product is safe to the people.

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### **REFERANCES:**

- 1. V.P. Kapoor, Herbal cosmetics for skin and hair care, Natural Product Radiance. 4 (2005) 306-314.
- Kasparaviciene, Giedre & Savickas, Arunas & Kalveniene, Zenona & Velziene, Saule & Kubiliene, Loreta & Bernatoniene, Jurga, 2016. Evaluation of Bees wax influences one physical properties of lipstick using instrumental and sensory methods. Evidence- based complementary & alternative medicine, 2016, 1-8. 10. 1155/2016/3816460.
- Kurek- Gorecka A, Gorecki M, Rzepecka- Stojko A, Bal wierz Stojko J. bee products in Dermatology & skin care molecules. 20220; 25(3): 556, published 2020 January 28. DOI: 10. 3390/molecules 25030556.
- Asian pacific journal of Tropical medicine, volume- 9, Issue- 9, September- 2016, pages 839-843. Beeswax: A minireview of its anti microbial activity & its application in medicine. Filippo Fratini, Giovanni cilia, Barbara Turchi, Antonio Felicioli.
- 5. S. Bogdanov, Beeswax: Production, properties composition & control, Beeswax Book. Chapter-2. Bee products science, Switzerland (2009), vol.85, Issue-3, September-2004, pages: 46-50.
- 6. Padmini Shankar, Suman Ahuja, Alexandra Tracchio. Department of Health & Kinesiology, Georgia southern university, PO Box 8076, States bro, GA 30460, USA. Coconut oil: a Review.
- 7. A Review of coconut oil: Ann essential oil for all. Princepal, Dishit Rathwa, Devendra parmar, Juhil patel, Siddhi upadhyay, Umesh upadhyay. Student, Sigma institute of pharmacy, Bakrol, Ajwa, Vadodara, Gujarat 390019, India. Research & Reviews: Journal of Pharmacognosy & phytochemistry.
- 8. Krishna AG, Gaurav R, Singh BA, Kumar PP, Preeti C. coconut oil: Chemistry, production 7 its applications- a review. Indian c-comet J. 2010; 53(3); 15-27.
- Olive oil: A Review, A Kiritsakis, P Markakis. Advances in Food Research. Vol.31, 1988, pages 453-482. <u>https://doi.org/10.1016/S0065-2628(08)</u> 60170-6.
- B. J. Kukreja, V. Dodwad, Herbal mouthwashes-A gift of nature, International Journal of Pharma and Bio Sciences. 3 (2012) 46-52.
- P. L. Kole, H. R. Jadhav, P. Thakurdesai, A. N. Nagappa, Cosmetic products of herbal extracts, Natural Product Radiance. 4 (2005) 4.
- S.K. Gediya, R.B. Mistry, U.K. Patel, M. Blessy, H.N. Jain, Herbal plants: Used as acosmetics, J. Nat. Prod. Plant Resour. 1 (2011) 24-32.
- S. Pandey, N. Meshya, D. Viral, Herbs play an important role in the field of cosmetics, International Journal of pharmtech Research. 2 (2010) 632-639.

- 14. S. Kaul, S. Dwivedi, Indigenous ayurvedic knowledge of some species in the treatment of human disease and disorders, International Journal of Pharmaceutical and Life Science. 1 (2010) 44-49.
- 15. S. Dwivedi, Folklore uses of some plants by the tribal are of Madhya Pradesh with Special reference to their conservation, Ethnobotanical Leaflets. 12 (2008) 741-743.
- P.K. Chattopadhyay, Herbal cosmetics and Ayurvedic medicines, National institute of Industrial Research. 1 (2005) 45-50.

