

THESIS
FORMULATION OF LIP BALM PREPARATION COMBINATION OF
RED GRAPE LEAF EXTRACT (*Vitis vinifera L*) AND RAMBUTAN
HONEY



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PONOROGO

2025

THESIS

To fulfill some requirements

Obtained Bachelor of Pharmacy

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ABSTRAK

FORMULASI SEDIAAN *LIP BALM* KOMBINASI EKSTRAK DAUN ANGGUR MERAH (*Vitis vinifera L*) DAN MADU RAMBUTAN

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Salah satu permasalahan mengenai kulit bibir kering dan pecah-pecah yang disebabkan oleh faktor lingkungan. Sediaan untuk mengatasi permasalahan tersebut adalah *Lip Balm*. Sediaan *Lip Balm* dari bahan alami yang terbuat dari ekstrak daun anggur merah memiliki keunggulan karena terdapat vitamin E, fenolik dan flavonoid yang berpotensi sebagai antioksidan dan antiinflamasi serta madu rambutan memiliki sifat sebagai antibakteri dan mengandung humektan sehingga dapat melembabkan bibir sekaligus membantu melindungi bibir dari infeksi dan iritasi. Penelitian ini bertujuan untuk membuat dan mengevaluasi mutu *Lip Balm* kombinasi ekstrak daun anggur merah dan madu rambutan. Penelitian ini merupakan penelitian eksperimental, dengan membuat 4 formula *Lip Balm* dengan kombinasi ekstrak daun anggur merah dan madu rambutan dengan perbandingan: 0%:0% (F0), 1%:2% (F1), 2%:2% (F2), dan 2%:1%(F3). Evaluasi sediaan meliputi uji organoleptik, uji homogenitas, uji pH, uji daya sebar, uji daya lekat dan uji stabilitas. Pengaruh kombinasi ekstrak daun anggur merah dan madu rambutan terhadap hasil evaluasi sediaan dianalisis menggunakan *One Way Anova*. Sedangkan uji stabilitas sediaan dianalisis menggunakan *Paired T Test*. Program statistik yang digunakan adalah SPSS 16.0 dengan taraf signifikansi 95%. Hasil penelitian menunjukkan uji organoleptik memiliki warna dominan hijau, aroma green tea, serta tekstur yang lembut dan berminyak; sediaan homogen; nilai pH 4,5-8; nilai daya sebar 3-5 cm; daya lekat >4 detik.

Kata Kunci: Daun anggur, *Lip Balm*, madu.

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ABSTRACT

FORMULATION OF LIP BALM PREPARATION COMBINATION OF RED GRAPE LEAF EXTRACT (*Vitis vinifera L*) AND RAMBUTAN HONEY (*Nephelium lappaceum*)

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In Indonesia itself, there are still many skin problems, one of which is the problem with the skin layer of the lips. The preparation to overcome this problem is *lip balm preparations*. *Lip balm* is a preparation that can be applied to the lips to prevent drying out and protect against environmental factors that can be detrimental. *Lip balm* preparations made from natural ingredients made from red grape leaf extract and rambutan honey have advantages due to the content of phenolic compounds and flavonoids as antioxidants, and rambutan honey which is rich in humectants, which can moisturize the lips while helping to protect the lips from infection and irritation. This study aims to determine the content of phenolic compounds and flavonoids, as well as to determine the evaluation of the physical quality of *lip balm* combined with red grape leaf extract and rambutan honey. This study is an experimental research, by making 4 formulations, namely 0%:0% (F0), 1%:2% (F1), 2%:1% (F2), and 2%:2% (F3). Evaluation of preparations includes organoleptic, homogeneity, pH, dispersion, and adhesion tests. The effect of the combination of red grape leaf extract and rambutan honey on the results of the preparation evaluation was analyzed using *One Way Anova*. Meanwhile, the stability test of the preparation was analyzed using *the Paired T Test*. The statistical program used is SPSS 16.0 with a significance level of 95%. The results showed that the organoleptic test had a dominant green color, green tea aroma, and a soft and oily texture; homogeneous preparations; pH value 4.5-8; spread power value 3-5 cm; adhesion >4 seconds. The values of all tests at F0, F1, F2, and F3 are all stable, except for the adhesion of the preparation.

Keywords: *lip balm*, red grape leaves, rambutan honey.

VALIDITY SHEET

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It is hereby stated that the thesis with the title:

**"FORMULATION OF LIP BALM PREPARATION COMBINATION OF RED
GRAPE LEAF EXTRACT (*Vitis vinifera* L) AND RAMBUTAN HONEY"**

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(*Nephelium lappaceum*)

Saya dengan tulus menyatakan bahwa penelitian yang tersusun dalam skripsi ini aslinya adalah karya saya sendiri dan bukan milik penelitian lain untuk derajat yang berbeda. Lebih lanjut, skripsi ini tidak pernah diterbitkan sebelumnya kecuali beberapa bagian dengan referensi aslinya.

Apabila dikemudian hari ditemukan bahwa karya ini adalah plagiat, saya siap diberikan sanksi secara administrasi dan akademis.

Ponorogo, 1 Januari 2025

Peneliti,



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FOREWORD

Praise and gratitude to Allah SWT, because thanks to his grace and guidance, the author was able to complete the thesis research with the title "Formulation of Lipbalm Preparation Combination of Red Grape Leaf Extract (*Vitis vinifera* L) and Rambutan Honey (*Nephelium lappaceum*)" can be completed properly and on time. This research was made to fulfill the final project to obtain a Bachelor of Stara 1 degree in the Pharmacy Study Program, Faculty of Health Sciences, Darussalam Gontor University.

The author realizes that the completion of this thesis research cannot be separated from the help, guidance, and direction from various parties. The author also realizes that this thesis is still far from perfect. Therefore, the author hopes to learn again in implementing the knowledge obtained. On this occasion, the author would like to express his deepest gratitude to:

1. The leaders of Pondok Modern Darussalam Gontor, K.H. Hasan Abdullah Sahal, K.H. Prof. Dr. Amal Fathullah Zarkasyi, and K.H. Drs. Akrim Mariyat, DIPL. A. ED.
2. Rector of Darussalam Gontor University, Proff. Dr. Hamid Fahmi Zarkasyi, M.A., M.Phil., Vice Chancellor I; Dr. Abdul Hafidz Zaid, M.A.; Vice Chancellor II, Dr. Setiawan Bin Lahuri, M.A; Vice Chancellor III, Dr. Khoirul Umam, M.E; and Vice Chancellor IV, Royyan Ramdhani Djayusman, Ph.D.
3. Deputy Vice Rector for Islamic Boarding School, Dr, Fairus Subakir Ahmad, M.A.; Deputy Vice Rector for Academic Affairs, Dr. Nur Hadi Ihsan, MIRKH.; Deputy Vice Rector for Cooperation, Research, Service, and Alumni, Dr. Cecep Sobar Rochmat, M.Pd.I.; Deputy Vice Chancellor for Finance, Human Resources, and Development Planning, Dr. Asif Trisnani, Lc., M.A.
4. Apt. Amal Fadhollah, S. Si, M. Si, as the Dean of the Faculty of Health Sciences, Darussalam Gontor University.

5. Apt. Nadia Iha Fatihah, M. Clin. Pharm, as the Head of the Pharmacy Study Program, Faculty of Health Sciences, University of Darussalam Gontor.
6. Anggun Mahirotun Nur Sholikhah M. farm, as the first supervisor and Nurul Marfu'ah, M,Si, as the second supervisor who have provided a lot of guidance, support, and motivation in completing this thesis.
7. All lecturers of the Pharmacy Study Program and Laboratory of the Pharmacy Study Program, Faculty of Health Sciences, Darussalam Gontor University.
8. For my beloved Mr. Rusman and Mamah Siti Dewi Rahmawati, thank you for all the support, both moral and material, as well as prayers so that the research completed the final task well.
9. All friends of the Pharmacy Study Program class of 2021 who have given their prayers and support.
10. All parties who have helped and cannot be mentioned one by one, the author hopes that Allah SWT. to all of them. Hopefully this thesis can be useful for all of us. Amiiinn.

Ngawi, January 21, 2025

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