

Formulasi Krim Antioksidan Ekstrak Etanol Daun Ubi Jalar Ungu (*Ipomoea batatas* (L.) Lamk) Sebagai Anti Aging

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Abstrak

Daun ubi jalar ungu (*Ipomoea batatas* (L.) Lamk) varietas Antin 3 (IBLA) adalah sumber antioksidan alami karena mengandung senyawa antosianin. IBLA diekstrak secara maserasi kinetik dengan pelarut etanol 70 %. Tujuan penelitian ini adalah untuk menentukan aktivitas antioksidan melalui uji peredaman DPPH (*2,2-diphenyl-1-picrylhydrazyl*). Lebih lanjut adalah untuk memformulasi ekstrak IBLA ke dalam sediaan krim basis minyak dalam air (m/a). Basis dan formulasi krim diuji stabilitas fisik pada penyimpanan suhu 28°C selama 4 minggu. Parameter stabilitas yang diukur adalah organoleptis, homogenitas fisik, nilai pH, nilai viskositas, tipe emulsi, kapasitas sebar, uji mekanik dan uji *freeze and thaw*. Pada basis dan formulasi krim dilakukan evaluasi manfaat kelembaban, kurvatur dan pigmentasi pada kulit manusia. Hasil penelitian menunjukkan bahwa ekstrak etanol IBLA memiliki aktivitas antioksidan sebesar 80,43% dibanding dengan vitamin C murni. Nilai IC 50 ekstrak IBLA adalah 3,68 ppm dan IC 50 vitamin C adalah 2,96 ppm. Basis dan formula krim stabil secara fisik selama 4 minggu. Basis dan krim antioksidan tidak memiliki manfaat meningkatkan kelembaban kulit. Basis tidak memiliki efek mencegah kerutan namun krim antioksidan memiliki manfaat mencegah kerutan. Basis tidak memiliki manfaat mencegah pigmentasi namun krim antioksidan memiliki manfaat mencegah pigmentasi.

Abstract

Purple sweet potatoes leaves (*Ipomoea batatas* (L.) Lamk) Antin 3 variety (IBLA) are natural antioxidant sources because of anthocyanins contents. IBLA extracted by kinetic maseration with 70 % ethanolic solution. The aims of this research are to determine antioxidant activity for DPPH (*2,2-diphenyl-1-picrylhydrazyl*) scavenging activity and formulating IBLA extract into oil in water base cream dosage form. Both the base cream and formulation were stored at 28°C for a period of 4 weeks to predict their stability. The evaluation parameters consisted of organoleptic, homogeneity, pH value, viscosity, emulsion type, dispersive power, mechanic and freeze and thaw. Furthermore, the base cream and formulation were evaluated for their effects on skin moisture, curvature and pigmentation. The results showed that ethanolic extract of IBLA had antioxidant activity of 80.43 % compared with pure vitamin C. IC 50 value of IBLA extract is 3.68 ppm while vitamin C is 2.96 ppm. Base and antioxidant creams had a physical stability for 4 weeks. The base and antioxidant creams have no effect on promoting skin moisture. The base cream had no effect in inhibiting curvature but antioxidant cream was effective to inhibit curvature. The base showed no pigmentation inhibiting effect but antioxidant cream was effective in inhibiting pigmentation.

Keywords : antioxidant, IBLA, oil cream, skin moisture, curvature, pigmentation.

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Yowel Kambu, Elisabeth Samaran



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Proceedings of 5th Borobudur International Symposium on Humanities and Social Science (BISHSS 2023) Zulfikar Bagus Pambuko,Muji Setiyo,Chrisna Bagus Edhita Praja,Agus Setiawan,Fitriana Yulastuti,Lintang Muliawanti,Veni Soraya Dewi,2024-08-01 This is an open access book In our rapidly evolving modern era the intersection of green technology and digital society has shifted paradigm shifts across various facets of human life The fusion of these two domains holds the potential to profoundly impact society s social aspects Therefore The 5th Borobudur International Symposium with the theme Smart and Sustainable The Synergy of Green Technology and Digital Society is designed to delve into and celebrate the strong synergy between green technology and the digital society specifically focusing on social sciences The background of this conference reflects the significant tensions in modern society On the one hand we witness innovative strides in green technology to reduce negative environmental impacts and develop more sustainable systems On the other hand our society is becoming increasingly interconnected in a vast digital network enabling unprecedented information exchange that influences social interactions work education and many other aspects of daily life As green technology and the digital society converge new and crucial opportunities and challenges emerge in the social context Through this International Conference we hope to provide a platform for researchers practitioners and stakeholders to share knowledge experiences and innovative ideas to better understand how green technology and the digital society can collaborate to achieve smarter and more sustainable societies

Meningkatkan Kadar Trombosit Penderita Dengue Hemorrhagic Fever dengan Rebusan Daun Petatas Ungu (Ipomea Batatas L. Poir) Yowel Kambu,Elisabeth Samaran,2023-07-05 Dengue Hemorrhagic Fever DHF atau yang biasa dikenal dengan Demam Berdarah Dengue DBD merupakan penyakit infeksi akut endemik yang disebabkan oleh virus dengue dan ditularkan melalui gigitan nyamuk Aedes aegypti dan Aedes albopictus yang mana virus ini akan mengganggu kinerja pembuluh darah kapiler sistem pembekuan darah dan meningkatkan kadar trombosit dalam tubuh sehingga mengakibatkan terjadinya perdarahan perdarahan Trombosit adalah indikator utama pasien DHF karena virus dengue menyerang monosit yang berfungsi membangun sistem imun tubuh Sehingga manajemen peningkatan kadar trombosit sangat diperlukan Dalam buku ini membahas manajemen peningkatan kadar trombosit dengan pemanfaatan sumber alam lokal berupa tanaman Petatas ungu Ipomoea Batatas L Poir Petatas ungu sebagai salah satu tanaman merakyat yang dikonsumsi umbinya dan daunnya sebagai sayur dan sebagai obat Petatas ungu ternyata juga dapat dimanfaatkan pada kasus kasus demam berdarah dan telah terbukti menunjukkan perbaikan dengan pemberian air rebusan daun Petatas ungu dapat meningkatkan kadar trombosit pada pasien DHF

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Table of Contents Formulasi Krim Antioksidan Ekstrak Etanol Daun Ubi Jalar

1. Understanding the eBook Formulasi Krim Antioksidan Ekstrak Etanol Daun Ubi Jalar
 - The Rise of Digital Reading Formulasi Krim Antioksidan Ekstrak Etanol Daun Ubi Jalar
 - Advantages of eBooks Over Traditional Books
2. Identifying Formulasi Krim Antioksidan Ekstrak Etanol Daun Ubi Jalar
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Formulasi Krim Antioksidan Ekstrak Etanol Daun Ubi Jalar
 - User-Friendly Interface
4. Exploring eBook Recommendations from Formulasi Krim Antioksidan Ekstrak Etanol Daun Ubi Jalar
 - Personalized Recommendations
 - Formulasi Krim Antioksidan Ekstrak Etanol Daun Ubi Jalar User Reviews and Ratings
 - Formulasi Krim Antioksidan Ekstrak Etanol Daun Ubi Jalar and Bestseller Lists
5. Accessing Formulasi Krim Antioksidan Ekstrak Etanol Daun Ubi Jalar Free and Paid eBooks
 - Formulasi Krim Antioksidan Ekstrak Etanol Daun Ubi Jalar Public Domain eBooks
 - Formulasi Krim Antioksidan Ekstrak Etanol Daun Ubi Jalar eBook Subscription Services

- Formulasi Krim Antioksidan Ekstrak Etanol Daun Ubi Jalar Budget-Friendly Options
- 6. Navigating Formulasi Krim Antioksidan Ekstrak Etanol Daun Ubi Jalar eBook Formats
 - ePub, PDF, MOBI, and More
 - Formulasi Krim Antioksidan Ekstrak Etanol Daun Ubi Jalar Compatibility with Devices
 - Formulasi Krim Antioksidan Ekstrak Etanol Daun Ubi Jalar Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Formulasi Krim Antioksidan Ekstrak Etanol Daun Ubi Jalar
 - Highlighting and Note-Taking Formulasi Krim Antioksidan Ekstrak Etanol Daun Ubi Jalar
 - Interactive Elements Formulasi Krim Antioksidan Ekstrak Etanol Daun Ubi Jalar
- 8. Staying Engaged with Formulasi Krim Antioksidan Ekstrak Etanol Daun Ubi Jalar
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Formulasi Krim Antioksidan Ekstrak Etanol Daun Ubi Jalar
- 9. Balancing eBooks and Physical Books Formulasi Krim Antioksidan Ekstrak Etanol Daun Ubi Jalar
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Formulasi Krim Antioksidan Ekstrak Etanol Daun Ubi Jalar
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Formulasi Krim Antioksidan Ekstrak Etanol Daun Ubi Jalar
 - Setting Reading Goals Formulasi Krim Antioksidan Ekstrak Etanol Daun Ubi Jalar
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Formulasi Krim Antioksidan Ekstrak Etanol Daun Ubi Jalar
 - Fact-Checking eBook Content of Formulasi Krim Antioksidan Ekstrak Etanol Daun Ubi Jalar
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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