

Formulasi Gel Ekstrak Daun Kelor (*Moringa oleifera* Lamk) Sebagai Sediaan Antiinflamasi

Formulation of *Moringa oleifera* Leaf Extract As Anti-Inflammatory Gel Dosage Form

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ABSTRAK

Pengembangan bentuk sediaan gel antiinflamasi dari ekstrak daun kelor telah dilakukan. Tujuan dari penelitian ini adalah mengetahui sifat fisik, indeks iritasi dan daya antiinflamasi gel dengan variasi konsentrasi ekstrak daun kelor. Ekstrak diperoleh dengan metode maserasi menggunakan pelarut etanol 70%. Ekstrak diformulasikan dalam bentuk gel pada konsentrasi 3%, 6%, 9% dengan menggunakan Carbopol 940 sebagai *gelling agent*. Gel dievaluasi sifat fisiknya (viskositas, pH, daya sebar, daya lekat), indeks iritasi dengan hewan uji kelinci dan daya antiinflamasi dengan hewan uji mencit berdasarkan parameter tebal epidermis. Hasil uji menunjukkan bahwa peningkatan konsentrasi ekstrak menyebabkan perubahan viskositas, pH, daya lekat, tebal epidermis serta daya sebar. Berdasarkan hasil uji dapat disimpulkan bahwa konsentrasi optimum ekstrak daun kelor dalam gel sebagai antiinflamasi adalah 3%.

Kata kunci: gel; ekstrak daun kelor; antiinflamasi; sifat fisik; tebal epidermis

ABSTRACT

The development of anti-inflammatory gel of *Moringa oleifera* leaf extract has been performed. This study aimed to determine the physical properties, irritation index and anti-inflammatory activity of gel with various concentration of *Moringa oleifera* leaf extract. The extract was obtained by maceration method using ethanol 70%. The extracts were formulated in a gel with a concentration of 3%, 6%, 9% by using Carbopol 940 as *gelling agent*. The gel was evaluated for its physical properties (viscosity, pH, spreadability, adhesivity), irritation index with rabbit test animals and anti-inflammatory activity with mice test animals based on epidermal thickness parameters. The test results showed that the increasing of extract concentration changed the viscosity, pH, adhesivity, epidermal thickness and spreadability of the gel. Based on the results of this study it can be concluded that the optimum concentration of *Moringa oleifera* leaf extract in gel as anti-inflammatory was 3%.

Key words: gel; *Moringa oleifera* leaf extract; anti-inflammatory; physical properties; epidermal thickness

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PENDAHULUAN

Inflamasi merupakan respon tubuh ketika mengalami cedera, adanya infeksi, antigen atau kerusakan sel sehingga merupakan pertanda adanya hal yang membahayakan tubuh atau terjadinya penyakit (Lima dkk., 2011; Souto dkk., 2011). Respon inflamasi ditandai oleh kondisi berupa *rubor* (kemarahan), *kalor* (panas), *dolor* (nyeri), *tumor* (pembengkakan) dan gangguan fungsi (Corwin, 2008). Inflamasi dapat bersifat lokal dan sistemik, dapat juga terjadi secara akut atau kronis yang menimbulkan kelainan patologis.

Salah satu tempat yang dapat mengalami inflamasi adalah kulit sehingga pengembangan bentuk sediaan antiinflamasi khususnya yang bersifat lokal telah dilakukan. Kesuntungan dari pemberian sediaan obat antiinflamasi secara topikal adalah dapat langsung dioleskan pada tempat yang mengalami inflamasi sehingga langsung dapat memberikan efek, pelepasan obatnya secara perlahan-lahan sehingga durasi efeknya bisa lebih lama dan menurunkan frekuensi penggunaan sehingga tingkat kepatuhan pasien bisa meningkat (Zhang dkk., 2019). Beberapa penelitian sebelumnya telah memformulasikan sediaan antiinflamasi dalam bentuk sediaan gel, krim dan salep (Santos dkk., 2018; Srirod dan Tewtrakul, 2019; Dev dkk., 2019; Carvalho dkk., 2019; Yakota dan Kyotani, 2018).

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**Ma'rifani Fitri Arisa, Lantip Diat
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Table of Contents Formulasi Gel Ekstrak Bahan Alam Sebagai Antiinflamasi

1. Understanding the eBook Formulasi Gel Ekstrak Bahan Alam Sebagai Antiinflamasi
 - The Rise of Digital Reading Formulasi Gel Ekstrak Bahan Alam Sebagai Antiinflamasi
 - Advantages of eBooks Over Traditional Books
2. Identifying Formulasi Gel Ekstrak Bahan Alam Sebagai Antiinflamasi
 - 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 Gel Ekstrak Bahan Alam Sebagai Antiinflamasi
 - User-Friendly Interface
4. Exploring eBook Recommendations from Formulasi Gel Ekstrak Bahan Alam Sebagai Antiinflamasi
 - Personalized Recommendations
 - Formulasi Gel Ekstrak Bahan Alam Sebagai Antiinflamasi User Reviews and Ratings
 - Formulasi Gel Ekstrak Bahan Alam Sebagai Antiinflamasi and Bestseller Lists
5. Accessing Formulasi Gel Ekstrak Bahan Alam Sebagai Antiinflamasi Free and Paid eBooks
 - Formulasi Gel Ekstrak Bahan Alam Sebagai Antiinflamasi Public Domain eBooks
 - Formulasi Gel Ekstrak Bahan Alam Sebagai Antiinflamasi eBook Subscription Services
 - Formulasi Gel Ekstrak Bahan Alam Sebagai Antiinflamasi Budget-Friendly Options
6. Navigating Formulasi Gel Ekstrak Bahan Alam Sebagai Antiinflamasi eBook Formats
 - ePub, PDF, MOBI, and More
 - Formulasi Gel Ekstrak Bahan Alam Sebagai Antiinflamasi Compatibility with Devices
 - Formulasi Gel Ekstrak Bahan Alam Sebagai Antiinflamasi Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Formulasi Gel Ekstrak Bahan Alam Sebagai Antiinflamasi
 - Highlighting and Note-Taking Formulasi Gel Ekstrak Bahan Alam Sebagai Antiinflamasi
 - Interactive Elements Formulasi Gel Ekstrak Bahan Alam Sebagai Antiinflamasi

8. Staying Engaged with Formulasi Gel Ekstrak Bahan Alam Sebagai Antiinflamasi
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Formulasi Gel Ekstrak Bahan Alam Sebagai Antiinflamasi
9. Balancing eBooks and Physical Books Formulasi Gel Ekstrak Bahan Alam Sebagai Antiinflamasi
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Formulasi Gel Ekstrak Bahan Alam Sebagai Antiinflamasi
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Formulasi Gel Ekstrak Bahan Alam Sebagai Antiinflamasi
 - Setting Reading Goals Formulasi Gel Ekstrak Bahan Alam Sebagai Antiinflamasi
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Formulasi Gel Ekstrak Bahan Alam Sebagai Antiinflamasi
 - Fact-Checking eBook Content of Formulasi Gel Ekstrak Bahan Alam Sebagai Antiinflamasi
 - 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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