



Anti-inflammatory Activity of *Cyathula prostrata* (L.) Blume

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Abstract: The genus, *Cyathula* comprises of about one hundred and six (106) species which are perennial herbs or under-shrubs. *Cyathula prostrata* (L.) Blume which belongs to the Amaranthaceae family is commonly known as pasture weed, pigweed and small prickly chaff- flower and found growing in forests, plantations, waste areas and roadsides. Extracts of this plant are used in traditional medicine for the treatment of chest troubles, dysentery, diarrhea, craw-craw, scabies, sexual disease, tumours and inflammations amongst many others. The growing concerns associated with the incidence of reactive free-radicals widely implicated in inflammatory conditions prompted this present study. The crude extract, fractions and two previously isolated compounds (HOO-1 and HOO-2) from the plant were screened for anti-inflammatory activities with the aim of confirming or disproving its uses in ethnomedicine. The xylene and chorio-allantoic membrane (CAM) models were employed in the determination of the anti-inflammatory activity. The xylene-model test for anti-inflammatory activity showed that the ethyl-acetate fraction and HOO-2 gave moderately similar anti-inflammatory activity of 53.48 % while HOO-1 was comparably less active at 30.20 %. The chorio-allantoic membrane (CAM) model also indicated that both the ethyl-acetate fraction and HOO-2 gave moderate anti-inflammatory activity of 52.00 % while HOO-1 was less active at 44.00 %. However, the other fractions were weakly active.

These results obtained from this study were not surprising because the phytochemical screening of the extract indicated the presence of flavonoids and terpenes which have demonstrated anti-inflammatory activities in previous studies. Furthermore, the results show some consistency irrespective of the model used and do lend scientific justification to the folklore uses of the plant in treating and managing inflammatory conditions.

Keywords: Inflammations; xylene-model; chorio-allantoic membrane (CAM); *Cyathula prostrata*; free-radicals.

Introduction

From time immemorial, man has been dependent on plants and other sources for his food and medicine for relief from illness¹. Plants owe their value as drugs to the medicinal properties of specific inorganic and organic chemical entities present therein². Currently, about twenty to fifty percent (20% to 50%) of medicines /drugs in the world is derived from plants³. Therefore, any contribution to the discovery of templates for the treatment and/or management of disease conditions such as skin, gastro-intestinal, respiratory tract infections, tumours and especially inflammations will be of particular interest to the scientific world and of immense benefits to mankind. Inflammation just like free radical damage and oxidative stress has become major health

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Table of Contents Anti Inflammatory Activity Of Cyathula Prostrata

1. Understanding the eBook Anti Inflammatory Activity Of Cyathula Prostrata
 - The Rise of Digital Reading Anti Inflammatory Activity Of Cyathula Prostrata
 - Advantages of eBooks Over Traditional Books
2. Identifying Anti Inflammatory Activity Of Cyathula Prostrata
 - 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 Anti Inflammatory Activity Of Cyathula Prostrata
 - User-Friendly Interface
4. Exploring eBook Recommendations from Anti Inflammatory Activity Of Cyathula Prostrata

- Personalized Recommendations
 - Anti Inflammatory Activity Of Cyathula Prostrata User Reviews and Ratings
 - Anti Inflammatory Activity Of Cyathula Prostrata and Bestseller Lists
5. Accessing Anti Inflammatory Activity Of Cyathula Prostrata Free and Paid eBooks
 - Anti Inflammatory Activity Of Cyathula Prostrata Public Domain eBooks
 - Anti Inflammatory Activity Of Cyathula Prostrata eBook Subscription Services
 - Anti Inflammatory Activity Of Cyathula Prostrata Budget-Friendly Options
 6. Navigating Anti Inflammatory Activity Of Cyathula Prostrata eBook Formats
 - ePub, PDF, MOBI, and More
 - Anti Inflammatory Activity Of Cyathula Prostrata Compatibility with Devices
 - Anti Inflammatory Activity Of Cyathula Prostrata Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Anti Inflammatory Activity Of Cyathula Prostrata
 - Highlighting and Note-Taking Anti Inflammatory Activity Of Cyathula Prostrata
 - Interactive Elements Anti Inflammatory Activity Of Cyathula Prostrata
 8. Staying Engaged with Anti Inflammatory Activity Of Cyathula Prostrata
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Anti Inflammatory Activity Of Cyathula Prostrata
 9. Balancing eBooks and Physical Books Anti Inflammatory Activity Of Cyathula Prostrata
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Anti Inflammatory Activity Of Cyathula Prostrata
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Anti Inflammatory Activity Of Cyathula Prostrata
 - Setting Reading Goals Anti Inflammatory Activity Of Cyathula Prostrata
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Anti Inflammatory Activity Of Cyathula Prostrata

- Fact-Checking eBook Content of Anti Inflammatory Activity Of Cyathula Prostrata
 - 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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