

Research Article

Identification of Bioactive Compounds from Cocoa Fruit Skin (*Theobroma Cacao* L.) with Variations in Solvent Polarity Properties

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Abstract: Bioactive compounds are chemical compounds formed through metabolic processes in plants, contributing to their beneficial properties. Cocoa fruit, derived from 22 cultivated *Theobroma* species, contains a variety of bioactive compounds that offer several health benefits. Identifying these bioactive compounds in plants can be achieved through extraction using various solvents, depending on their polarity properties. This study aims to explore the content of bioactive compounds in dried cocoa fruit peel (*Theobroma cacao* L.) extract, focusing on variations in solvent polarity. The results of the study showed that the 90% ethanol extract (polar solvent) of cocoa fruit peel contained a range of bioactive compounds, including flavonoids, tannins, alkaloids, and saponins. Ethanol, being a polar solvent, effectively extracted a variety of bioactive compounds due to its ability to dissolve polar substances. This extract is significant due to its wide range of potential health benefits attributed to the presence of flavonoids, tannins, alkaloids, and saponins, all known for their antioxidant, antimicrobial, and anti-inflammatory properties. Additionally, the acetone extract (semi-polar solvent) of cocoa fruit peel also contained alkaloids, flavonoids, tannins, and saponins. Acetone, as a semi-polar solvent, was able to extract a variety of compounds with moderate polarity, making it a versatile solvent for bioactive compound extraction. The presence of alkaloids and saponins in this extract indicates its potential use for various medicinal purposes. On the other hand, the n-Hexane extract (non-polar solvent) of cocoa fruit peel produced primarily alkaloids and terpenoids. Hexane, being non-polar, tends to extract non-polar compounds, which include alkaloids and terpenoids known for their various biological activities. In conclusion, the study demonstrates the varying effectiveness of solvents with different polarities in extracting bioactive compounds from cocoa fruit peel, which can be utilized for health-promoting purposes.

Keywords: Bioactive, Cocoa Fruit Peel, Extraction, Polarity, Solvent.

1. Introduction

Compound bioactive is results from the metabolic processes in plants that produce something compound will but its function No so important in growth and development in plants the (Julianto, 2019) . Compounds bioactive often called compound metabolit secondary . Function from metabolit secondary For prevent growth bacteria , fungi and animals eater plants on a plant as well as maintaining and developing ability reproductive organs owned by plants That himself (Justinus et al ., 2018). Plants are known as the main producers of secondary metabolite compounds that have different high bioactive potentials that are used in the drug and pharmaceutical industry (Jain et al., 2019) .

Plants that contain bioactive compounds include the cocoa plant, where the most widely used part is the fruit. Included in the 22 cultivated *Theobroma* species, this plant is known to have various benefits and advantages (Rosio, 2018). Cocoa fruit (*Theobroma cacao* L.) is usually processed into chocolate, but the cocoa fruit skin is only thrown away as waste in large quantities and is not utilized, therefore cocoa fruit skin waste becomes a problem if it is produced in large quantities and not handled properly (Rachmawaty, 2018).

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Table of Contents Bioactive Compounds In Different Cocoa Theobroma Cacao

1. Understanding the eBook Bioactive Compounds In Different Cocoa Theobroma Cacao
 - The Rise of Digital Reading Bioactive Compounds In Different Cocoa Theobroma Cacao
 - Advantages of eBooks Over Traditional Books
2. Identifying Bioactive Compounds In Different Cocoa Theobroma Cacao
 - 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 Bioactive Compounds In Different Cocoa Theobroma Cacao
 - User-Friendly Interface
4. Exploring eBook Recommendations from Bioactive Compounds In Different Cocoa Theobroma Cacao
 - Personalized Recommendations
 - Bioactive Compounds In Different Cocoa Theobroma Cacao User Reviews and Ratings
 - Bioactive Compounds In Different Cocoa Theobroma Cacao and Bestseller Lists
5. Accessing Bioactive Compounds In Different Cocoa Theobroma Cacao Free and Paid eBooks
 - Bioactive Compounds In Different Cocoa Theobroma Cacao Public Domain eBooks
 - Bioactive Compounds In Different Cocoa Theobroma Cacao eBook Subscription Services

- Bioactive Compounds In Different Cocoa Theobroma Cacao Budget-Friendly Options
- 6. Navigating Bioactive Compounds In Different Cocoa Theobroma Cacao eBook Formats
 - ePub, PDF, MOBI, and More
 - Bioactive Compounds In Different Cocoa Theobroma Cacao Compatibility with Devices
 - Bioactive Compounds In Different Cocoa Theobroma Cacao Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Bioactive Compounds In Different Cocoa Theobroma Cacao
 - Highlighting and Note-Taking Bioactive Compounds In Different Cocoa Theobroma Cacao
 - Interactive Elements Bioactive Compounds In Different Cocoa Theobroma Cacao
- 8. Staying Engaged with Bioactive Compounds In Different Cocoa Theobroma Cacao
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Bioactive Compounds In Different Cocoa Theobroma Cacao
- 9. Balancing eBooks and Physical Books Bioactive Compounds In Different Cocoa Theobroma Cacao
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Bioactive Compounds In Different Cocoa Theobroma Cacao
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Bioactive Compounds In Different Cocoa Theobroma Cacao
 - Setting Reading Goals Bioactive Compounds In Different Cocoa Theobroma Cacao
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Bioactive Compounds In Different Cocoa Theobroma Cacao
 - Fact-Checking eBook Content of Bioactive Compounds In Different Cocoa Theobroma Cacao
 - 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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