



## Review article

## An overview of natural antimicrobials role in food

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## ABSTRACT

The present paper aims to review the natural food preservatives with antimicrobial properties emphasizing their importance for the future of food manufacturing and consumers' health. The extraction procedures applied to natural antimicrobials will be considered, followed by the description of some natural preservatives' antimicrobial mechanism of action, including (i) membrane rupture with ATP-use activity inhibition, (ii) leakage of essential biomolecules from the cell, (iii) disruption of the proton motive force and (iii) enzyme inactivation. Moreover, a provenance-based classification of natural antimicrobials is discussed by considering the sources of origin for the major natural preservative categories: plants, animals, microbes and fungi. As well, the structure influence on the antimicrobial potential is considered. Natural preservatives could also constitute a viable alternative to address the critical problem of microbial resistance, and to hamper the negative side effects of some synthetic compounds, while meeting the requirements for food safety, and exerting no negative impact on nutritional and sensory attributes of foodstuffs.

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## Contents

1. Introduction: biopreservation and fighting foodborne microbial pathogens .....	922
2. Extraction procedures of natural antimicrobial compounds .....	923
3. Mechanisms of action of antimicrobials in food .....	924
4. Plant – derived natural antimicrobials .....	925
5. Natural antimicrobial agents of animal origin .....	927
6. Natural preservatives from microbial sources .....	928
7. Natural preservatives from algae and mushrooms .....	929
8. Several illustrative applications of natural antimicrobials .....	930
9. Critical conclusive aspects and prospects .....	930
References .....	932

## 1. Introduction: biopreservation and fighting foodborne microbial pathogens

Many foodborne diseases are caused by ingestion of food contaminated with microbial pathogens. Many studies are focused on counteracting the action of such food related pathogens and on

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# Natural Antimicro Min Proc Food

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## **Table of Contents Natural Antimicro Min Proc Food**

1. Understanding the eBook Natural Antimicro Min Proc Food
  - The Rise of Digital Reading Natural Antimicro Min Proc Food
  - Advantages of eBooks Over Traditional Books
2. Identifying Natural Antimicro Min Proc Food
  - 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 Natural Antimicro Min Proc Food
  - User-Friendly Interface

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

12. Sourcing Reliable Information of Natural Antimicro Min Proc Food
  - Fact-Checking eBook Content of Natural Antimicro Min Proc Food
  - 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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