

Unit 4 – Industrial Biochemistry [Dr. A. Poongothai]

Unit 4 – Industrial Biochemistry

Food preservation is essential for extending the shelf life of food and maintaining its safety and quality. Here are some key principles:

1. Low Temperature

- **Refrigeration** slows down microbial growth and enzymatic activity.
- **Freezing** halts microbial activity and preserves texture and flavor.

2. High Temperature

- **Canning** involves heating food to kill microorganisms and enzymes.
- **Pasteurization** reduces harmful pathogens while maintaining quality.

3. Dehydration

- Removing moisture inhibits microbial growth. Methods include air drying, sun drying, and using dehydrators.

4. Fermentation

- Utilizing beneficial bacteria or yeast to convert sugars into acids or alcohol, enhancing preservation and flavor (e.g., pickling, yogurt).

5. Chemical Preservation

- Adding substances like salt, sugar, vinegar, or preservatives to inhibit spoilage and microbial growth.

6. Vacuum Packaging

- Removing air around food limits oxidation and growth of aerobic bacteria.

7. Modified Atmosphere Packaging (MAP)

- Altering the gas composition in packaging to slow spoilage and extend shelf life.

8. Acidification

- Lowering pH through vinegar or citric acid can inhibit microbial growth.

9. Food Irradiation

- Using ionizing radiation to kill bacteria and pests without significantly raising temperature.

10. Control of Water Activity (aw)

- Reducing water activity through drying, adding sugar or salt to inhibit microbial growth.

11. Hygiene and Sanitation

- Proper handling, cooking, and storage practices minimize contamination.

Single cell proteins (SCP), including **Spirulina**, **lactic acid bacteria (LAB)**, and **propionic acid bacteria**, have significant industrial applications, particularly in food production, animal feed, and biotechnology.

1. Spirulina

• Production:

- Cultivated in controlled environments such as open ponds or bioreactors, using sunlight and CO₂ for photosynthesis.

• Applications:

- **Nutraceuticals:** Used in dietary supplements for its high protein and nutrient content.
- **Food Industry:** Incorporated into health foods, smoothies, protein bars, and even as a natural colorant in products like ice cream.

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Table of Contents Industrial Biochemistry S

1. Understanding the eBook Industrial Biochemistry S
 - The Rise of Digital Reading Industrial Biochemistry S
 - Advantages of eBooks Over Traditional Books
2. Identifying Industrial Biochemistry S
 - 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 Industrial Biochemistry S
 - User-Friendly Interface
4. Exploring eBook Recommendations from Industrial Biochemistry S
 - Personalized Recommendations
 - Industrial Biochemistry S User Reviews and Ratings
 - Industrial Biochemistry S and Bestseller Lists

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 - Industrial Biochemistry S Budget-Friendly Options
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 - Industrial Biochemistry S Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Industrial Biochemistry S
 - Highlighting and Note-Taking Industrial Biochemistry S
 - Interactive Elements Industrial Biochemistry S
8. Staying Engaged with Industrial Biochemistry S
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Industrial Biochemistry S
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 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Industrial Biochemistry S
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Industrial Biochemistry S
 - Setting Reading Goals Industrial Biochemistry S
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Industrial Biochemistry S
 - Fact-Checking eBook Content of Industrial Biochemistry S
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
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 - Interactive and Gamified eBooks

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