

Protective Cultures Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Product Form (Freeze-Dried and Frozen), By Target Microorganism (Yeasts & Molds and Bacteria), By Composition (Single-Strain, Multi-Strain and Multi-Strain Mixed), By Application (Dairy & Dairy Products, Meat & Poultry Products, Seafood and Others), By Region and Competition

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Abstracts

The Global Protective Cultures Market was valued at USD 222.01 Million in 2022 and is projected to experience robust growth during the forecast period, with a Compound Annual Growth Rate (CAGR) of 9.12% and expected to reach USD 371.29 Million through 2028. Protective cultures are formulations comprising bacteria that inhibit the growth of pathogenic organisms. These formulations hold the Generally Regarded as Safe (GRAS) status. Protective cultures are utilized to develop a range of antimicrobial substances, which in turn impede the growth of foodborne pathogens and spoilage microorganisms. The presence of protective cultures signifies safe food and ensures food quality. They also serve the purpose of food preservation. Protective cultures encompass pure cultures or culture concentrates, which are live microbe preparations added to food products to mitigate risks from pathogenic or toxic bacteria and spoilage agents. They play a crucial role in assisting dairy manufacturers in enhancing their profit margins by preventing spoilage agents, extending shelf life, and meeting customer demands for more natural and clean-label products. Noteworthy examples of popular commercial protective cultures include Lactobacilli, Streptococci, Bifidobacterium, E. coli, Bacillus spp., yeasts such as Saccharomyces, and molds such as Aspergillus.

Key Market Drivers

Increasing Demand for Fermented and Functional Foods

Fermented and functional foods and beverages have witnessed a surge in popularity recently. Protective cultures find applications across a diverse range of fermented products, including cheese, yogurts, sour cream, fermented vegetables, pickles, and fermented sausages. Hence, a pivotal driver behind the growth of protective cultures is the escalating demand for fermented food products. Furthermore, the expanding consumer interest in clean-label and shelf-stable products is anticipated to fuel the expansion of the protective cultures market. Factors such as rising disposable income and evolving consumer preferences also significantly contribute to the development of the protective cultures market. Moreover, given that protective cultures play a role in the bio-preservation of products, the surging demand for natural preservatives is adding to the expansion of the global market.

Increasing Demand for Foods with Extended Shelf Life

Consumers are increasingly conscious of the quality and safety of the food they consume. Consequently, there is a growing preference for natural and clean-label ingredients. Protective cultures can serve as natural preservatives, inhibiting the growth of harmful microorganisms that cause spoilage and deterioration in food products. This aligns with the demand for safer and minimally processed foods, driving the adoption of protective cultures. The mounting consumer concern for food safety and quality contributes to the demand for products with prolonged shelf lives. The necessity for protective cultures arises from their reliable and secure method of food preservation. Moreover, the potential of protective cultures to mitigate the risk of foodborne illnesses is driving their application in meat and poultry products, thereby propelling market revenue growth. The demand for food products with extended shelf life is further boosted by the expansion of e-commerce and the soaring popularity of online food delivery services. Protective cultures are gaining traction in the food delivery sector due to their ability to provide a secure and cost-effective solution for food preservation. Additionally, the rising popularity of fermented dairy products fuels the need for protective cultures that enhance flavor and texture.

Increasing Adoption of Protective Cultures in Pharmaceutical and Cosmetic Industries

Both the pharmaceutical and cosmetic industries are undergoing a shift towards using more natural and sustainable ingredients in their products. Protective cultures can serve

as natural preservatives, antimicrobials, and stabilizers, reducing reliance on synthetic additives and chemicals. This aligns with consumer preferences for clean, green, and eco-friendly products, thereby bolstering demand for protective cultures. Research into the human microbiome has highlighted its significance in maintaining overall health, including skin health. Cosmetics and pharmaceuticals that incorporate protective cultures can be marketed as microbiome-friendly products, appealing to consumers who are increasingly conscious of the role of beneficial microorganisms in maintaining wellness. The growing adoption of protected cultures in the pharmaceutical and cosmetic sectors is a significant driver of market revenue growth. Protective cultures are employed in the production of probiotic supplements and cosmetics to enhance efficacy and prolong shelf life. Additionally, the use of protective cultures is expanding in the pharmaceutical industry due to their ability to improve drug stability and prevent microbial contamination.

Increasing Use of Protective Cultures in Confectionery Production

As consumers become more health-conscious, they seek confectionery products that offer added health benefits. Protective cultures, which are beneficial bacteria or microorganisms, can contribute to improved digestive health and overall well-being. This aligns with the growing demand for functional foods, including confectionery items. Many consumers now seek confectionery products with cleaner and simpler ingredient lists. Protective cultures can be perceived as natural and clean ingredients, especially when compared to synthetic additives and preservatives. Manufacturers can leverage this trend by marketing their products as made with 'live and active cultures,' appealing to health-conscious consumers. Incorporating protective cultures into confectionery allows manufacturers to create premium and differentiated products. These products can command higher prices due to perceived health benefits and unique characteristics, further driving demand. The increasing use of protective cultures in confectionery production can lead to heightened demand due to changing consumer preferences, health trends, cleaner label requirements, extended shelf-life benefits, and opportunities for innovation and differentiation in the market.

Key Market Challenges

Scale and Cost-Effectiveness

Upscaling protective cultures production and ensuring cost-effectiveness can pose challenges. Achieving consistent quality and performance at larger production scales while maintaining affordability can be a complex task. Ensuring uniform quality and

performance of protective cultures at larger scales demands meticulous control of fermentation conditions. Some protective cultures may behave differently when scaled up, leading to variations in performance and quality. Developing cost-effective fermentation media that support robust growth and high yields can be challenging at larger scales. Extracting, purifying, and formulating protective cultures for incorporation into final products can become more intricate with scale. Ensuring consistent quality and safety of protective cultures across different production batches is crucial but challenging. Achieving cost-effectiveness while scaling up can be difficult due to economies of scale not always being realized as expected.

Fluctuations in Raw Material Prices

Fluctuating prices of raw materials used in protective cultures production can introduce uncertainty in production costs. This can make it challenging for manufacturers to accurately predict and manage expenses. Increased raw material costs can potentially lead to higher production costs for protective cultures. If these increased costs cannot be easily absorbed, it might result in higher prices for products containing protective cultures, potentially making them less affordable for consumers. If raw material prices rise significantly, manufacturers might face pressure to maintain competitive pricing, impacting their profit margins. Fluctuating raw material prices can lead to supply chain disruptions. Suppliers may struggle to provide consistent quantities of raw materials at stable prices, affecting the availability and production of protective cultures. If manufacturers are forced to switch suppliers or use lower-quality raw materials due to price fluctuations, it could impact the quality and performance of protective cultures. Inconsistent product quality can erode consumer trust and hinder market growth.

Key Market Trends

Increasing Consumption of Dairy Products

The rising consumption of dairy products and heightened consumer awareness of clean label products and their benefits are pivotal factors propelling the protective cultures market's growth. For instance, Chr Hansen's introduction of protective culture products has enabled consumers to replace artificial preservatives, extending the shelf life of yogurt and cheese products. Additionally, the growing global demand for natural preservative-free items is fueling the market expansion of protective cultures. The increasing need for long-term preservatives and highly transparent products has also contributed to the protective cultures market's growth. The use of protective cultures enables a wider range of dairy products with unique flavors, textures, and

characteristics, fostering innovation in the dairy industry. This leads to the development of new product offerings that attract consumer interest and boost consumption. Dairy products containing protective cultures can be positioned as premium and value-added choices, marketed as higher-quality products with extended freshness and potential health benefits, allowing manufacturers to command higher prices and margins.

Increasing Demand for Probiotic-Enriched Foods

Consumers are increasingly recognizing the potential health benefits of probiotics, live microorganisms that confer health advantages when consumed in adequate amounts. Probiotics support digestive health, strengthen the immune system, and offer other wellness benefits. Therefore, the demand for products containing probiotics, such as yogurt, kefir, fermented foods, and dietary supplements, is growing. Protective cultures, including specific bacterial and yeast strains, are used to create probiotic-rich food products. These cultures ensure that the live beneficial microorganisms remain viable and effective in the final product, delivering desired health benefits to consumers. The demand for probiotic-enriched products directly drives the need for protective cultures to maintain the viability of these beneficial microbes.

Segmental Insights

Composition Type Insights

The multi-strain mixed-based segment is expected to experience the highest Compound Annual Growth Rate (CAGR) throughout the forecast period. Multi-strain mixed systems are commonly used due to their advantages over single and multi-strain cultures. Each strain within these cultures contributes distinct functionalities, inhibiting specific microorganisms or a variety of microorganisms.

Target Microorganism Insights

The yeasts and molds segment accounted for the largest market share in 2022 and is projected to maintain its dominance. This dominance can be attributed to the extensive use of protective cultures by the dairy industry in cheese manufacturing worldwide.

Regional Insights

Europe

The protective cultures market in the European region maintains dominance and is expected to continue this trend during the forecast period. This is due to increased milk product consumption and a focus on enhancing production capabilities.

Asia-Pacific

The Asia-Pacific region is projected to experience a high growth rate, registering the highest CAGR. This growth is attributed to factors such as organic product and dairy food consumption, a growing population, increasing awareness of protective cultures, rising westernization, changing lifestyles, and higher disposable incomes. The rapid expansion of the food and beverage sector in the region is expected to lead to the highest revenue growth rate. Emerging economies like India and China, with a wealthier growing middle class and increased emphasis on food safety, drive demand for protective cultures. Additionally, affordable protective cultures' availability further fuels demand in the region. The growth of the e-commerce sector and discounts offered online are expected to drive protective cultures demand in the Asia-Pacific region.

North America

The North American market is expected to expand at a moderate rate due to stringent regulations governing protective cultures' use in the food and beverage industry. Strict rules by the US Food and Drug Administration (FDA) may limit market growth in the region. However, as food safety awareness grows, demand for protective cultures in North America is also expected to increase.

Key Market Players

Aristomenis D. Phikas & Co S.A

Biochem S.R.L

Bioprox

Chr. Hansen

CSK Food Enrichment B.V.

Dalton Biotechnologies S.R.L

Dow, Inc.

DuPont de Nemours, Inc.

DSM

Kerry Group PLC

Report Scope:

In this report, the Global Protective Cultures Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Protective Cultures Market, By Product Form:

Freeze-Dried

Frozen

Protective Cultures Market, By Target Microorganism:

Yeasts & Molds

Bacteria

Protective Cultures Market, By Composition:

Single-Strain

Multi-Strain

Multi-Strain Mixed

Protective Cultures Market, By Application:

Dairy & Dairy Products

Meat & Poultry Products

Seafood

Others

Protective Cultures Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkey

Egypt

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Protective Cultures Market.

Available Customizations:

Global Protective Cultures market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

2. RESEARCH METHODOLOGY

3. EXECUTIVE SUMMARY

4. VOICE OF CUSTOMER

5. GLOBAL PROTECTIVE CULTURES MARKET OUTLOOK

5.1. Market Size & Forecast

5.1.1. By Value

5.2. Market Share & Forecast

5.2.1. By Product Form (Freeze-Dried and Frozen)

5.2.2. By Target Microorganism (Yeasts & Moulds and Bacteria)

5.2.3. By Composition (Single-Strain, Multi-Strain and Multi-Strain Mixed)

5.2.4. By Application (Dairy & Dairy Product Forms, Meat & Poultry Product Forms, Seafood and Others)

5.2.5. By Region

5.2.6. By Company (2022)

5.3. Market Map

6. NORTH AMERICA PROTECTIVE CULTURES MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Product Form

6.2.2. By Target Microorganism

6.2.3. By Composition

6.2.4. By Application

6.2.5. By Country

6.3. North America: Country Analysis

6.3.1. United States Protective Cultures Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Product Form

6.3.1.2.2. By Target Microorganism

6.3.1.2.3. By Composition

6.3.1.2.4. By Application

6.3.2. Canada Protective Cultures Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Product Form

6.3.2.2.2. By Target Microorganism

6.3.2.2.3. By Composition

6.3.2.2.4. By Application

6.3.3. Mexico Protective Cultures Market Outlook

6.3.3.1. Market Size & Forecast

6.3.3.1.1. By Value

6.3.3.2. Market Share & Forecast

6.3.3.2.1. By Product Form

6.3.3.2.2. By Target Microorganism

6.3.3.2.3. By Composition

6.3.3.2.4. By Application

7. EUROPE PROTECTIVE CULTURES MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Product Form

7.2.2. By Target Microorganism

7.2.3. By Composition

7.2.4. By Application

7.3. Europe: Country Analysis

7.3.1. Germany Protective Cultures Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

7.3.1.2. Market Share & Forecast

- 7.3.1.2.1. By Product Form
- 7.3.1.2.2. By Target Microorganism
- 7.3.1.2.3. By Composition
- 7.3.1.2.4. By Application
- 7.3.2. United Kingdom Protective Cultures Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Product Form
 - 7.3.2.2.2. By Target Microorganism
 - 7.3.2.2.3. By Composition
 - 7.3.2.2.4. By Application
- 7.3.3. Italy Protective Cultures Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecasty
 - 7.3.3.2.1. By Product Form
 - 7.3.3.2.2. By Target Microorganism
 - 7.3.3.2.3. By Composition
 - 7.3.3.2.4. By Application
- 7.3.4. France Protective Cultures Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Product Form
 - 7.3.4.2.2. By Target Microorganism
 - 7.3.4.2.3. By Composition
 - 7.3.4.2.4. By Application
- 7.3.5. Spain Protective Cultures Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Product Form
 - 7.3.5.2.2. By Target Microorganism
 - 7.3.5.2.3. By Composition
 - 7.3.5.2.4. By Application

8. ASIA-PACIFIC PROTECTIVE CULTURES MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Product Form
 - 8.2.2. By Target Microorganism
 - 8.2.3. By Composition
 - 8.2.4. By Application
- 8.3. Asia-Pacific: Country Analysis
 - 8.3.1. China Protective Cultures Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Product Form
 - 8.3.1.2.2. By Target Microorganism
 - 8.3.1.2.3. By Composition
 - 8.3.1.2.4. By Application
 - 8.3.2. India Protective Cultures Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Product Form
 - 8.3.2.2.2. By Target Microorganism
 - 8.3.2.2.3. By Composition
 - 8.3.2.2.4. By Application
 - 8.3.3. Japan Protective Cultures Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Product Form
 - 8.3.3.2.2. By Target Microorganism
 - 8.3.3.2.3. By Composition
 - 8.3.3.2.4. By Application
 - 8.3.4. South Korea Protective Cultures Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Product Form
 - 8.3.4.2.2. By Target Microorganism
 - 8.3.4.2.3. By Composition

- 8.3.4.2.4. By Application
- 8.3.5. Australia Protective Cultures Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Product Form
 - 8.3.5.2.2. By Target Microorganism
 - 8.3.5.2.3. By Composition
 - 8.3.5.2.4. By Application

9. SOUTH AMERICA PROTECTIVE CULTURES MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Product Form
 - 9.2.2. By Target Microorganism
 - 9.2.3. By Composition
 - 9.2.4. By Application
- 9.3. South America: Country Analysis
 - 9.3.1. Brazil Protective Cultures Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Product Form
 - 9.3.1.2.2. By Target Microorganism
 - 9.3.1.2.3. By Composition
 - 9.3.1.2.4. By Application
 - 9.3.2. Argentina Protective Cultures Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Product Form
 - 9.3.2.2.2. By Target Microorganism
 - 9.3.2.2.3. By Composition
 - 9.3.2.2.4. By Application
 - 9.3.3. Colombia Protective Cultures Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value

- 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Product Form
 - 9.3.3.2.2. By Target Microorganism
 - 9.3.3.2.3. By Composition
 - 9.3.3.2.4. By Application

10. MIDDLE EAST AND AFRICA PROTECTIVE CULTURES MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Product Form
 - 10.2.2. By Target Microorganism
 - 10.2.3. By Composition
 - 10.2.4. By Application
- 10.3. MEA: Country Analysis
 - 10.3.1. South Africa Protective Cultures Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Product Form
 - 10.3.1.2.2. By Target Microorganism
 - 10.3.1.2.3. By Composition
 - 10.3.1.2.4. By Application
 - 10.3.2. Saudi Arabia Protective Cultures Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Product Form
 - 10.3.2.2.2. By Target Microorganism
 - 10.3.2.2.3. By Composition
 - 10.3.2.2.4. By Application
 - 10.3.3. UAE Protective Cultures Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Product Form
 - 10.3.3.2.2. By Target Microorganism
 - 10.3.3.2.3. By Composition

10.3.3.2.4. By Application

11. MARKET DYNAMICS

12. MARKET TRENDS & DEVELOPMENTS

13. GLOBAL PROTECTIVE CULTURES MARKET: SWOT ANALYSIS

14. COMPETITIVE LANDSCAPE

14.1. Business Overview

14.2. Services Offerings

14.3. Recent Developments

14.4. Key Personnel

14.5. SWOT Analysis

14.5.1. Aristomenis D. Phikas & Co S.A

14.5.2. Biochem S.R.L

14.5.3. Bioprox

14.5.4. Chr. Hansen

14.5.5. CSK Food Enrichment B.V.

14.5.6. Dalton Biotechnologies S.R.L

14.5.7. Dow, Inc.

14.5.8. DuPont de Nemours, Inc.

14.5.9. DSM

14.5.10. Kerry Group PLC

15. STRATEGIC RECOMMENDATIONS

16. ABOUT US & DISCLAIMER

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