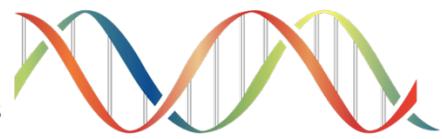




Community BioRefineries
The Epitome of American Innovation



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Community BioRefineries,

Resistant Starch: History, Health Benefits, Market Size, and CAGR Trends

The hemp/cannabis industry has undergone significant growth, driven by shifting perceptions and regulatory changes. Among the diverse range of products derived from hemp, resistant starch emerges as a promising ingredient with versatile applications.

This paper explores the history, health benefits, food ingredient applications, market size, and Compound Annual Growth Rate (CAGR) trends of resistant starch, particularly focusing on its potential from hemp biomass within the framework of Community Bio-Refineries.

History of Resistant Starch and Regulatory Landscape:

Resistant starch, a type of starch resistant to digestion, has a storied past rooted in early dietary observations. Despite initial regulatory constraints and limited research, its health benefits gradually gained recognition, spurred by evolving dietary guidelines and scientific advancements.

Health Benefits of Resistant Starch:

Resistant starch offers numerous health benefits, including enhanced digestive health, blood sugar regulation, and weight management. Its unique properties foster the growth of beneficial gut bacteria, promoting overall gut health and supporting immune function. Additionally, resistant starch has been associated with reduced risk factors for chronic diseases such as diabetes and cardiovascular disorders.

Food Ingredient Applications:

Resistant starch finds application across various food sectors, including bakery products, cereals, snacks, pasta, and noodles. As a functional ingredient, it enhances the nutritional profile and texture of food products while imparting health benefits. Resistant starch also serves as a prebiotic, stimulating the growth of beneficial gut microbiota and promoting gut health.

Community Bio-Refinery Success in Extracting and Isolating Resistant Starch:

Community Bio-Refineries (CBR) have successfully extracted and isolated resistant starch from various feedstocks. Industrial hemp is an ideal crop, marking a significant milestone in the utilization of hemp-derived products. Through CBR's innovative processing techniques and research collaborations, CBRs have demonstrated the feasibility of producing high-quality resistant starch, unlocking new avenues for value-added products and market expansion. Further, *it is possible to convert* some standard plant starches to resistant starch in some cases.

Market Size and CAGR Trends:

The global market for resistant starch has witnessed steady growth, driven by increasing consumer demand for functional food ingredients. In 2020, the resistant starch market was valued at USD 250.4 million, with a projected Compound Annual Growth Rate (CAGR) of 5.1% from 2024 to 2031. It should be noted that these figures reflect the inclusion of a domestic U.S. market which is just now beginning to realize what resistant starch actually is and its inherent benefits. We expect these figures to increase substantially

Major industry players, including Ingredion, Tate & Lyle, Cargill, and MGP Ingredients, are attempting to drive innovation and expand market reach.

Resistant starch presents compelling health benefits and versatile applications in the food industry. The successful extraction and isolation of resistant starch by Community Bio-Refineries from hemp biomass highlight the potential of hemp-derived products in meeting consumer demand for functional food ingredients.

By capitalizing on technological advancements, research collaborations, and market opportunities, stakeholders can unlock the full potential of resistant starch, contributing to a healthier and more sustainable future.

References:

- Scientific Journals on Resistant Starch Health Benefits
- Market Research Reports on Global Resistant Starch Market
- Industry Publications on Functional Food Ingredient Applications

For more in-depth information please see our website. [Community BioRefineries](#)