

Report Information

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Polyhydroxy butyrate Market Research Report - Global Forecast till 2030

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Description:

Polyhydroxy Butyrate Market Overview

The polyhydroxy butyrate market was valued at USD 62 million in 2018, and it is expected to grow at a higher CAGR of 18.69% in the global market to account for the higher market value of approximately USD 121 million by the end of the forecasted period from 2021 to 2028 in the global market.

A naturally occurring who is partially in the crystalline polymer is called Polyhydroxy butyrate (PHB). During starvation, it helps in energy storage which is primarily synthesized by prokaryotic microorganisms. Various bacterial strains are potent producers of polyhydroxy butyrate. Some of these are rhizobium, pseudomonas, Nocardia, Bacillus, Azotobacter, Alcaligenes, and many others. PHB is also used as an attractive alternative for petroleum-derived plastics as it has non-pollutant and biological degradability characteristics.

COVID 19 Analysis

The global pandemic of COVID 19 has affected a large section of society. Most people have lost their livelihood because of this global pandemic. It has affected the growth and dynamics of several industries. Owing to the shortage of vaccines, everyone is concerned about their immunity and follows social distancing. With the increasing social distancing and contactless activities, the demand for the packaged food for ensuring proper hygiene and safety. Food and beverages also show significant demand when packed taking all the necessary measures.

The global pandemic of COVID 19 has a neutral impact on the global market share of the polyhydroxy butyrate market. The market share for PHB is expected to show positive growth during the forecasted period from 2021 to 2028.

Competitive Landscape

The most prominent major key players in the polyhydroxy butyrate market all across the globe are mentioned below:

- AGRANA Beteiligungs-AG (Austria)
- Green Dot Bioplastics (USA)
- TianAn Biologic Materials Co., Ltd. (China)
- Tianjin GreenBio Materials Co., Ltd. (China)
- Cardia Bioplastics (Australia)
- FULL CYCLE BIOPLASTICS (USA)
- PolyFerm Canada (Canada)
- BASF SE (Germany)
- Kaneka Corporation (Japan)
- Biome Technologies PLC (UK)

Market Dynamics

Drivers

Various factors drive the market demand. The rise in the regulations regarding the environment and increasing concern for plastic waste accumulation drives the demand for biodegradable plastics and hence increases demand for polyhydroxy butyrate. As PHB has thermoplastics characteristics that resemble synthetic polymers to a great extent which helps in various synthetic plastic-based applications and hence drives the market demand. In this eco-friendly era, PHB is largely used as it reduces hazardous effects caused by non-degradable and conventional petroleum-based plastics.

Opportunities

The rise in demand for PHB in the global market. Owing to increasing use of polyhydroxy butyrate as a replacement of polyolefin commodities like polyethylene (PE) and polypropylene (PP) creates various growth opportunities during the forecasted period. Moreover, owing to various qualities of PHB like nanotechnology, biocompatibility it is largely used in medical applications which propel the market demand and hence provide various growth opportunities in the

global market.

Restraints

Though the polyhydroxy butyrate market is increasing at an incredible rate some factors restrict its growth in the global market. The presence of poor mechanical properties of biopolymer coupled with high fabrication cost restricts the use of PHB in various applications and hence hamper the market growth. The cost of manufacturing biodegradable plastic-like PHB is 20%-80% more than conventional plastics. Since most of the countries are at the developing stage it becomes difficult to afford biodegradable plastic. Also, the PHB market is at the early development stage and hence it does not achieve economies of scale.

Value Chain Analysis

The demand for the polyhydroxy butyrate market is increasing rapidly in the global market owing to various benefits associated with it. Since it has properties like oxygen permeability and resistance from UV rays it is largely used in the various medical and biomedical industries. It is also used in the production of microcapsules to control the release of drugs. Another use of PHB is seen in tissue engineering. Regular research and development done in PHB fuels the market demand in the global market. Additionally, increasing concern regarding environment-related issues provides growth opportunities.

Market Segmentation

The polyhydroxy butyrate market has been divided all across the globe based on the type, end-user industry, and region.

Based on the Type

The market has been divided all across the globe based on the type into granules type, sheet type, film type, and powder type.

Based on the End-User Industry

The market has been divided all across the globe based on the end-user industry into the agriculture industry, consumer goods industry, biomedical industry, packaging industry, and many others.

Based on the Region

The market has been divided all across the globe based on the region into the Asia-Pacific region, European region, North American region, Latin American region, and the Middle East and African region.

Regional Analysis

The polyhydroxy butyrate market has been divided all across the globe based on the region into Asia-Pacific region, European region, North American region, Latin American region, and the Middle East and African region. The largest market share in the global market is held by the European region owing to rising demand for sophisticated biopolymers and reduction in dependency on fossil fuels. Additionally, rise in several legislations and the presence of mature bioplastic industries. According to the reports of the European Biomass Industry Association, 41.5% of the global biopolymers market is held by Western Europe. Moreover, strong research and development coupled with the increasing use of biopolymers boost the market growth.

The second-largest market share in the global market is held by the Asia-Pacific region owing to increasing disposable income coupled with increasing industrialization drives the market demand. Additionally, the growing demand for packing films and packaged foods boost the market demand. The use of 2 million tons of bioplastics per year has been estimated by the Japan Ministry of Environment by the end of 2030.

The third-largest market share is held by the North American region. Owing to the presence of stringent regulation regarding non-biodegradable plastic waste's use. Additionally, the use of biopolymer-based nanocomposites especially in the food packaging industry boosts the market growth in this region. Among all the countries present in this region, the US holds the largest market share and hence dominates the market.

The Middle East and African region and Latin American region are expected to grow at a substantial growth rate owing to a rapid increase in per capita disposable income coupled with an increase in industrialization.

These major key players use various strategies to sustain their market position in the polyhydroxy butyrate market in the global market by going for mergers, and acquisitions, by collaborating, setting up a new joint venture, establishing a partnership, developing a new production process, developing a new product line, innovation in the existing product, and many others to expand their customer base in the untapped market of the polyhydroxy butyrate across the globe.

Recent Developments

Aug 2021 Nike has teamed up with Newlight Technologies, a biotechnology business, to lower its carbon impact. Nike intends to investigate the usage of AirCarbon, a carbon-negative biomaterial created by ocean microorganisms and developed by Newlight. The material's creation also makes use of the exchange of greenhouse gases. By developing this plastic alternative, Newlight hopes to contribute to the fight against plastic pollution and climate change. The material is currently utilized as a plastic leather alternative for bags, eyewear, and wallets. Newlight uses ocean microorganisms to manufacture AirCarbon, which absorbs greenhouse gases and air before converting it inside the material's cells. As a result, AirCarbon, also known as polyhydroxybutyrate (PHB), is an energy storage substance made up of 40% oxygen from the air and 60% carbon from greenhouse gases.**Jun 2021** A RUDN University scientist has discovered how the environment affects the nanofibers of two organic plastics: polyhydroxybutyrate and polylactide. Using the electrospinning method, the researchers produced six types of fibres from polylactide granules and polyhydroxybutyrate powder. The polymer solution was placed in an electric field with a high voltage, which "pulled" the fluid into narrow jets. They transformed into fibers when they cooled. Six different types of finished fibers were obtained, each with a different polymer content, ranging from pure polyhydroxybutyrate and polylactide to their blends in various ratios. The largest market share in the polyhydroxy butyrate market is held by the European region owing to increasing demand for sophisticated biopolymers coupled with a reduction in the dependence on fossil fuels drives the market growth. Tianjin GreenBio Materials Co., Ltd. (China) is spending a huge sum of money on research and development to get an upper edge over its competitors. This will help the company by increasing the sales revenue. Being the fastest-growing region, the Asia-Pacific region projects higher market share owing to increasing personal disposable income coupled with increasing industrialization. All the major key players are highly investing in new product launches, mergers, and acquisitions, and joint ventures.

Report Overview

The global polyhydroxy butyrate market research report consists of the following elements mentioned below:

- Market Overview
- COVID 19 Analysis
- Market Dynamics
- Value Chain Analysis
- Market Segmentation
- Regional Analysis
- Competitive Landscape
- Recent Developments

This market research report contains factors that drive the growth of the polyhydroxy butyrate market in the global market along with the factors that restrict its growth in the global market. The opportunities available for growth during the forecasted period are mentioned. The impact of COVID 19 on the sales revenue of the polyhydroxy butyrate market all across the globe is mentioned. The future growth rate of the polyhydroxy butyrate market during the forecasted period is estimated and mentioned.

Intended Audience

Industry associations, distributors, polyhydroxy butyrate manufacturers, raw material suppliers, potential investors, traders and distributors of polyhydroxy butyrate, and many others.

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