

Global Poly-gamma-glutamic Acid Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Poly-gamma-glutamic Acid market size will reach 552.45 Million USD in 2025 and is projected to reach 919.53 Million USD by 2032, with a CAGR of 7.55% (2025-2032). Notably, the China Poly-gamma-glutamic Acid market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Poly-gamma-glutamic acid (PGA) is a biopolymer composed of repeating units of the amino acid glutamic acid linked by amide bonds. It is naturally produced by certain bacteria, including *Bacillus subtilis*, and exhibits unique properties such as water solubility, biodegradability, and non-toxicity. PGA has found applications in various fields, including the food and cosmetic industries. In the food industry, it is used as a thickening agent, emulsifier, and stabilizer, and it can improve the texture and shelf life of certain products. In cosmetics, PGA is employed for its moisturizing and skin-firming properties. Additionally, PGA has potential applications in agriculture for soil improvement and water retention. Its biocompatibility and environmentally friendly characteristics make it a promising material for diverse applications, including drug delivery, tissue engineering, and environmental remediation.

The major global manufacturers of Poly-gamma-glutamic Acid include Vedan Biotechnology, Bioleaders, Ichimaru Pharcos, Shandong Freda, Nanjing Shineking Biotech, Guanghua Group, Nanjing Sai Taisi Biotechnology, Zytex, Shandong Changrui,

Shandong Taihe Biotech, Lion King Biotechnology, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Poly-gamma-glutamic Acid. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Poly-gamma-glutamic Acid market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Poly-gamma-glutamic Acid market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Poly-gamma-glutamic Acid industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Poly-gamma-glutamic Acid Include:

Vedan Biotechnology

Bioleaders

Ichimaru Pharcos

Shandong Freda

Nanjing Shineking Biotech

Guanghua Group

Nanjing Sai Taisi Biotechnology

Zytex

Shandong Changrui

Shandong Taihe Biotech

Lion King Biotechnology

Poly-gamma-glutamic Acid Product Segment Include:

Molecular Weight Below 20,000

700,000 Molecular Weight

1 million Molecular Weight

Above 1.5 million Molecular Weight

Poly-gamma-glutamic Acid Product Application Include:

Fertilizer

Medicines & Health Products

Food & Drinks

Cosmetic

Others

Chapter Scope

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

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