

Global Acid Protease Enzyme Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G6F7004B4497EN.html>

Date: August 2026

Pages: 127

Price: US\$ 4,480.00 (Single User License)

ID: G6F7004B4497EN

Abstracts

The global Acid Protease Enzyme market size is expected to reach \$ 380 million by 2032, rising at a market growth of 5.1% CAGR during the forecast period (2026-2032).

Acid Protease Enzymes are a class of biological enzyme preparations with an optimal reaction pH range of 2.0-4.0; they are primarily produced through submerged fermentation and refined extraction using superior microbial strains such as *Aspergillus niger*. They effectively catalyze protein hydrolysis, yielding products such as polypeptides and amino acids.

Upstream inputs include production strains (e.g., *Aspergillus niger* and *Aspergillus oryzae*); carbon sources (e.g., glucose, starch hydrolysates, and molasses); nitrogen sources (e.g., soybean meal, corn steep liquor, yeast extract, peptone, and inorganic nitrogen salts); culture medium components (e.g., phosphates, magnesium salts, and calcium salts); and various additives such as pH regulators, defoamers, filter aids, stabilizers, preservatives, and starch-based carriers. Downstream applications span industries including food and beverage, animal feed, and leather processing; customers typically select specific enzyme activities and product forms based on factors such as the protein composition of the raw material, reaction pH, temperature, target degree of hydrolysis, and subsequent processing conditions.

In 2025, global sales volume is approximately 45,000 metric tons, with an average price among leading enterprises of around US\$5,800 per ton and a gross profit margin of approximately 30%-40% for major manufacturers.

Growth in the acid protease market is primarily driven by the enhancement of brewing and fermentation processes, the deep processing of plant and animal proteins, the

adoption of low-protein diets and improved feed utilization, the enzymatic replacement of harsh acid/alkali leather processing steps, and the demand for digestive enzymes and protein-based nutritional products. In alcohol fermentation, acid proteases release assimilable amino nitrogen in low-pH environments, thereby promoting yeast growth and improving raw material utilization; in the feed sector, their value lies in boosting protein and amino acid digestibility and reducing the reliance on expensive protein ingredients; meanwhile, the food industry focuses on protein solubility, hydrolysis efficiency, flavor profiles, and bitterness control. Industry challenges include a lack of standardized enzyme activity testing methods across companies, the typically limited heat stability of acid proteases, stringent requirements for fermentation batch consistency and strain performance, as well as issues such as sensitization from inhaling enzyme dust and the complexities of regulatory approvals for food and feed applications. Future product development will trend toward enzymes featuring high specific activity, broad acidic pH tolerance, thermal and gastric acid stability, low-bitterness hydrolysis, granulated low-dust forms, and tailored blends for specific protein substrates; consequently, strain improvement, protein engineering, and application formulation services will increasingly become the focal points of corporate competition.

This report studies the global Acid Protease Enzyme production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Acid Protease Enzyme and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Acid Protease Enzyme that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Acid Protease Enzyme total production and demand, 2021-2032, (Tons)

Global Acid Protease Enzyme total production value, 2021-2032, (USD Million)

Global Acid Protease Enzyme production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Acid Protease Enzyme consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Acid Protease Enzyme domestic production, consumption, key domestic manufacturers and share

Global Acid Protease Enzyme production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Acid Protease Enzyme production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Acid Protease Enzyme production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Acid Protease Enzyme market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Novonesis, Amano Enzyme, dsm-firmenich, Advanced Enzyme Technologies, Biocatalysts, IFF, Guangdong VTR Bio-Tech, Shandong Lonct Enzymes, Xiasheng Industrial Group, Angel Enzyme Preparation (Yichang), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Acid Protease Enzyme market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Acid Protease Enzyme Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Acid Protease Enzyme Market, Segmentation by Type:

Powder

Liquid

Global Acid Protease Enzyme Market, Segmentation by Strain Source:

Aspergillus Niger

Aspergillus Oryzae

Other

Global Acid Protease Enzyme Market, Segmentation by Enzyme Activity:

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