

Global Candida Antarctica Lipase B Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Candida Antarctica Lipase B market size is expected to reach \$ 64.05 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032).

Candida antarctica Lipase B (CALB) is a highly selective lipase originating from Candida antarctica (now often classified within Moesziomyces species). Commercial products are typically supplied as recombinant free liquid enzymes, powdered enzymes, or immobilized particulate biocatalysts. CALB is widely used for esterification, transesterification, hydrolysis, aminolysis, lactone ring-opening polymerization, and chiral resolution. The estimated overall gross margin is approximately 61%.

CALB represents a relatively small but high-value segment within the specialty lipase market. While it accounts for only a small share of the global lipase market, its commercial value is concentrated in immobilized high-activity biocatalysts, chiral pharmaceutical intermediate synthesis, and premium lipid modification applications.

Market growth is driven by three major trends. First, pharmaceutical API and intermediate manufacturers increasingly seek enzymatic routes to replace metal-catalyzed or strong acid/base processes, improving selectivity while reducing downstream purification burdens. Second, demand is rising for mild, low-byproduct processing in Omega-3 concentrates, structured lipids, human milk fat substitutes, and specialty functional oils. Third, advances in immobilization carriers, directed evolution, and expression host optimization have reduced enzyme consumption rates, allowing CALB to expand beyond laboratory-scale applications into commercial-scale biocatalytic production.

Key constraints include relatively high catalyst cost, carrier leaching or activity loss during repeated use, and significant variation among substrate systems, which often necessitates laboratory and pilot-scale validation before commercial adoption. Over the medium term, CALB is expected to grow faster than conventional food-processing lipases, but its overall market size will remain substantially smaller than large-volume enzymes used in detergents, animal feed, and mainstream food processing.

This report studies the global Candida Antarctica Lipase B production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Candida Antarctica Lipase B 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 Candida Antarctica Lipase B that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Candida Antarctica Lipase B total production and demand, 2021-2032, (kg)

Global Candida Antarctica Lipase B total production value, 2021-2032, (USD Million)

Global Candida Antarctica Lipase B production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)

Global Candida Antarctica Lipase B consumption by region & country, CAGR, 2021-2032 & (kg)

U.S. VS China: Candida Antarctica Lipase B domestic production, consumption, key domestic manufacturers and share

Global Candida Antarctica Lipase B production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)

Global Candida Antarctica Lipase B production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)

Global Candida Antarctica Lipase B production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global Candida Antarctica Lipase B 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, Fermenta Biotech, Advanced Enzymes, KDN Biotech, SyncoZymes, Biosynth, Merck, Aladdin Scientific, Creative Enzymes, Creative BioMart, 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 Candida Antarctica Lipase B market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (kg) and average price (US\$/kg) 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 Candida Antarctica Lipase B Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Candida Antarctica Lipase B Market, Segmentation by Type:

Free Liquid Formulation

Free Powder Preparation

Immobilized Granular Biocatalyst

Immobilized Microcarrier Biocatalyst

Whole-cell Biocatalyst

Global Candida Antarctica Lipase B Market, Segmentation by Immobilization Carrier:

Polyacrylate Resin Carrier

Hydrophobic Resin Carrier

Epoxy or Covalent Bead Carrier

Inorganic or Hybrid Carrier

Magnetic Carrier

Carrier-free Enzyme

Global Candida Antarctica Lipase B Market, Segmentation by Expression Host:

Pichia pastoris Expression

Aspergillus Expression

Yeast Expression Unspecified

E. coli Expression

Native or Unspecified Source

Global Candida Antarctica Lipase B Market, Segmentation by Product Grade:

Research Grade

Food or Nutraceutical Processing Grade

Industrial Biocatalysis Grade

Pharmaceutical Intermediate Grade

Customized Enzyme Variant

Global Candida Antarctica Lipase B Market, Segmentation by Application:

Pharmaceutical Intermediates and Chiral Resolution

Specialty Fats and Omega-3 Oils

Flavor, Fragrance and Cosmetic Esters

Bio-based Polyester Synthesis

Biodiesel and Oleochemical Processing

Research and Enzyme Engineering

Companies Profiled:

Novonesis

Fermenta Biotech

Advanced Enzymes

KDN Biotech

SyncoZymes

Biosynth

Merck

Aladdin Scientific

Creative Enzymes

Creative BioMart

MedChemExpress

ProteoGenix

Key Questions Answered:

1. How big is the global Candida Antarctica Lipase B market?
2. What is the demand of the global Candida Antarctica Lipase B market?
3. What is the year over year growth of the global Candida Antarctica Lipase B market?
4. What is the production and production value of the global Candida Antarctica Lipase B market?
5. Who are the key producers in the global Candida Antarctica Lipase B market?
6. What are the growth factors driving the market demand?

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