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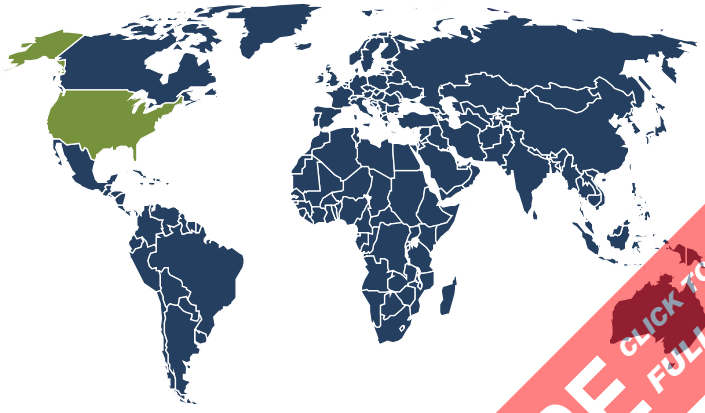
Freedonia Focus Reports
US Collection

Enzymes:

United States



June 2016

Highlights

Market Environment
Historical Trends | Key Economic Indicators | Environmental and Regulatory Factors
NAFTA Overview

Segmentation and Forecasts
Products | Markets

Industry Structure
Industry Composition and Characteristics | Additional Companies Cited

Resources

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ABOUT THIS REPORT

Scope & Method

This report forecasts US enzymes demand in US dollars at the manufacturers' level to 2020. Total demand is segmented by product in terms of:

- carbohydrases
- proteases
- polymerases
- nucleases
- other products such as lipases, phytases, and catalases.

Enzymes used as nutraceutical products (ie, dietary supplements) are included in the scope of this report, while enzymes used as active pharmaceutical ingredients are not.

Total demand is also segmented by market as follows:

- biofuel production
- food and beverages
- research and biotechnology
- cleaning products
- other markets such as animal feed, diagnostics, and cosmetics and toiletries.

To illustrate historical trends, total demand is provided in an annual series from 2005 to 2015; the various segments are reported at five-year intervals for 2010 and 2015.

This report quantifies trends in various measures of growth. Growth (or decline) expressed as an average annual growth rate (AAGR) is the least squares growth rate, which takes into account all available datapoints over a period. Growth calculated as a compound annual growth rate (CAGR) employs, by definition, only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the expected trend beginning in the base year and ending in the forecast year. Readers are encouraged to consider historical volatility when assessing particular annual values along the forecast trend, including in the forecast year.

Key macroeconomic indicators are also provided at five-year intervals with CAGRs for the years corresponding to other reported figures. Other various topics, including profiles of pertinent leading suppliers, are covered in this report. A full outline of report items by page is available in the Table of Contents.

Sources

Enzymes: United States (FF35017) is based on *World Enzymes*, a comprehensive

industry study published by The Freedonia Group in June 2016. Reported findings represent the synthesis and analysis of data from various primary, secondary, macroeconomic, and demographic sources including:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- national, regional, and international non-governmental organizations
- trade associations and their publications
- the business and trade press
- indicator forecasts by The Freedonia Group
- the findings of other industry studies by The Freedonia Group.

Specific sources and additional resources are listed in the Resources section of this publication for reference and to facilitate further research.

Industry Codes

The topic of this report is related to the following industry codes:

NAICS/SCIAN 2007 North American Industry Classification System		SIC Standard Industry Codes	
325199	All Other Basic Organic Chemical Mfg	2833	Medicinal Chemicals and Botanical Products
325411	Medicinal and Botanical Mfg		
325413	In-Vitro Diagnostic Substance Mfg	2835	In Vitro and In Vivo Diagnostic Substances
		2869	Industrial Organic Chemicals, NEC

Copyright & Licensing

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RESOURCES

The Freedonia Group

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3417 World Enzymes, June 2016 — see study contents

Related Industry Studies

3354 Drug Delivery Products, December 2015 — see study contents
3322 Water Treatment Chemicals, July 2015 — see study contents
3285 Enzymes, May 2015 — see study contents
3217 World Catalysts, December 2014 — see study contents
3207 World Industrial & Institutional Cleaning Chemicals, November 2014 — see study contents

Related Focus Reports

Catalysts: United States — see report contents
Grain-Based Foods: United States — see report contents
Oilfield Chemicals: United States — see report contents
Pharmaceuticals: United States — see report contents
Processed Food: United States — see report contents
Refined Petroleum Products: United States — see report contents
Renewable Energy: United States — see report contents
World Enzymes — see report contents

Freedonia Custom Research — see capabilities

Trade Publications

BioWorld — www.bioworld.com
Chemical & Engineering News — http://cen.acs.org
Drug Topics — http://drugtopics.modernmedicine.com
Genetic Engineering & Biotechnology News — www.genengnews.com
ICIS Chemical Business — www.icis.com
IHS Chemical Week — www.chemweek.com
Med Ad News — www.medadnews-digital.com

Agencies & Associations

Biotechnology Innovation Organization — www.bio.org
International Council of Chemical Associations — www.icca-chem.org
United States Census Bureau — www.census.gov
United States Department of Agriculture — www.usda.gov
United States Environmental Protection Agency — www.epa.gov
United States Food and Drug Administration — www.fda.gov
United States International Trade Commission — www.usitc.gov

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