

## Industrial Enzymes – A Global Market Overview

“The report reviews, analyzes and projects the global market for Industrial Enzymes for the period 2014-2024. The global market for industrial enzymes product segments analyzed in this study include Carbohydrases, Proteases, Lipases, Phytases, Polymerases & Nucleases and Others. The report also explores the end use markets for industrial enzymes comprising Food & Beverages, Detergents, Animal Feed, Biofuels, Textiles, Personal Care & Cosmetics, Paper & Pulp, Nutraceuticals and Others.”

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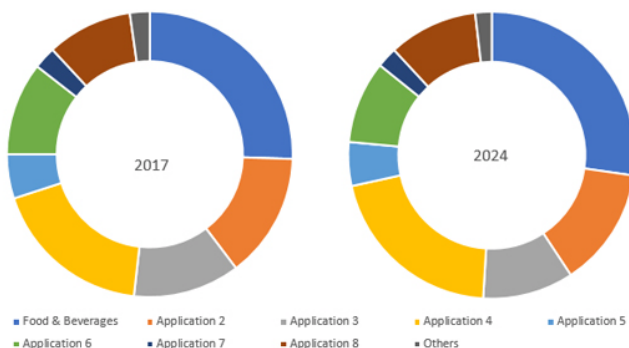
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### Report Synopsis

Demand for industrial enzymes is showing rapid growth due to increasing demand for food and beverages attributed to changing lifestyles and increase in disposable income in a wide segment of the population. Governments across the globe have incentivized the use of biofuels as cleaner alternatives to fossil fuel-based energy options, which has spurred the market for industrial enzymes. Advancements in various areas of biotechnology, particularly protein engineering have provided further impetus to the demand for industrial enzymes. Food & beverages account for about a quarter of the global market for industrial enzymes, though demand for them in the biofuels industry is likely to post the fastest growth during the analysis period.

Food & Beverages is the largest market for Industrial Enzymes with an estimated share of 26% that is equivalent to US\$1.4 billion in 2017, followed by Biofuels and Detergents with 18% (US\$969.3 million) and 14% (US\$754.4 million) respectively in the same year. Industrial Enzymes in Biofuels is expected the fastest growing segment with a CAGR of about 7.3% through to 2024. The global market for industrial enzymes is forecast to reach US\$5.6 billion in 2018.

Global Industrial Enzymes Market by Application 2017 and 2024



Source: Industry Experts, Inc. <http://industry-experts.com>

### Research Findings & Coverage

- The report analyzes the global market for Industrial Enzymes with respect to product segment, key application sector and major geographic region/country
- Product segments and each of the application sectors are thoroughly discussed in this study
- The Role of Enzymes in Bioconversion of Poultry Waste into Value Added Products

- Enzyme-Like Catalytic Nanomaterials for Biomedical Applications
- Newly Identified Enzyme Domains Enhance Performance in Cellulose Break Down
- Enzymes Engineered for Eating Plastics
- Key business trends focusing on product innovations/developments, M&As, JVs and other recent industry developments
- Major companies profiled – 23
- The industry guide includes the contact details for 505 companies

### Product Outline

The report analyzes the market for the key product segments of Industrial Enzymes including:

- Carbohydrases
- Proteases
- Lipases
- Phytases
- Polymerases & Nucleases
- Others

Application Sectors of Industrial Enzymes analyzed comprise the following:

- Food & Beverages
- Detergents
- Animal Feed
- Biofuels
- Textiles
- Personal Care& Cosmetics
- Paper & Pulp
- Nutraceuticals
- Others

### Analysis Period, Units and Growth Rates

- The report reviews, analyzes and projects the global Inorganic Pigments market for the period 2014-2024 in terms of market value in US\$ and the compound annual growth rates (CAGRs) projected from 2017 through 2024

### Geographic Coverage

- **North America** (The United States, Canada and Mexico)
- **Europe** (Germany, France, The United Kingdom, Italy, Spain and Rest of Europe)
- **Asia-Pacific** (Japan, China, India, South Korea and Rest of Asia-Pacific)
- **South America** (Brazil, Argentina and Rest of South America)
- **Rest of World**

## SAMPLE COMPANY PROFILE

### CODEXIS, INC. (UNITED STATES)

200 Penobscot Drive, Redwood City, CA 94063  
United States  
Phone: 650-421-8100  
Website: www.codexis.com

#### Business Profile

Codexis, Inc. engaged in discovering, developing, and selling protein catalysts. Codexis also offers intermediate chemicals products that are used for further chemical processing and Codex biocatalyst panels and kits that enable customers to perform chemistry screening. The company also provides protein catalyst screening and protein engineering services. In addition, company offers CodeEvolver protein engineering technology platform, which helps in developing and delivering protein catalysts that perform chemical transformations. The company's platform is used to discover novel biotherapeutic drug candidates for targeted human diseases, as well as for molecular biology and in vitro diagnostic enzymes. Codexis, Inc. was established in 2002 and is headquartered in Redwood City, California.

#### Product Portfolio

##### Screening Kits

- Codex® Elite MicroCyp® Screening Kit - Elite MicroCyp® enzymes are superior to Standard MicroCyp® enzymes as they are more active, have increased solvent tolerance and show greater substrate promiscuity, which makes them a valuable option especially where novel compounds or larger quantities are required.
- Codex® Ene Reductase Screening Kit - The Codex® ERED Screening Kit contains 7 ene reductase enzymes for asymmetric C=C double bond reduction. This selected set of engineered enzymes has a broad substrate range, diverse stereoselectivity, improved solvent stability and can operate on a wide range of temperatures and pHs.
- Codex® Amine Transaminase (ATA) Screening Kit - The Codex® ATA Screening Kit contains 24 amine transaminase enzymes for converting ketones into chiral amines. This selected set of engineered enzymes has a broad substrate range, diverse stereoselectivity, improved solvent stability and can operate on a wide range of temperatures and pHs.
- Codex® Amine Transaminase Screening Kit - The Codex® ATA Screening Kit contains 24 amine transaminase enzymes for converting ketones into chiral amines. This selected set of engineered enzymes has a broad substrate range, diverse stereoselectivity, improved solvent stability and can operate on a wide range of temperatures and pHs.
- Codex® Ketoreductase (KRED) Screening Kit - The Codex® KRED Screening Kit contains 24 ketoreductase enzymes for converting ketones into chiral alcohols. This selected set of engineered enzymes has a broad substrate range, diverse stereoselectivity, improved solvent stability and can operate on a wide range of temperatures and pHs.
- Codex® Nitrilase (NIT) Screening Kit - The Codex® NIT Screening Kit contains 12 nitrilase enzymes for converting nitriles into carboxylic acids. This selected set of engineered enzymes has a broad substrate range, diverse stereoselectivity, improved solvent stability and can operate on a wide range of temperatures and pHs.
- Codex® Standard MicroCyp® Screening Kit - The Codex® Standard MicroCyp® Screening Kit contains 23 of our standard enzymes that are capable of producing mammalian-type metabolites and new compounds for lead diversification.

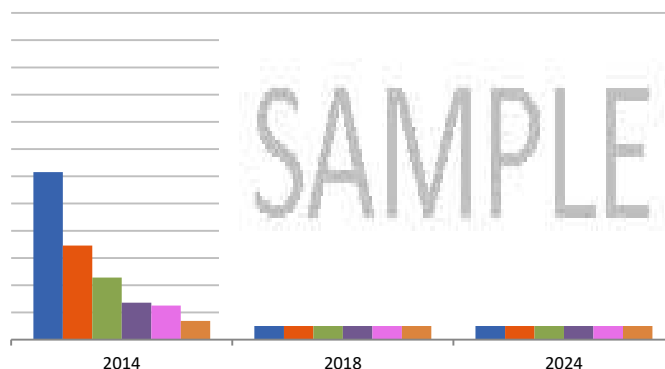
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## SAMPLE TABLE/CHART

Glance at 2017 Global Industrial Enzymes Market Share (%) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World



North American Industrial Enzymes Market Analysis (2014-2024) by Product Segment – Carbohydrases, Proteases, Lipases, Phytases, Polymerases & Nucleases and Others in USD Million



## KEY PLAYERS PROFILED

- AB Enzymes GmbH
- Adisseo France SAS
- Advanced Enzyme Technologies Limited
- Amano Enzyme Inc.
- AUM ENZYMES
- BASF Corporation
- BIOCATALYSTS LTD.
- BioResource International, Inc.
- Buckman Laboratories International, Inc.
- Cargill, Incorporated
- Chr. Hansen Holding A/S
- Codexis, Inc.
- DIREVO Industrial Biotechnology GmbH
- DowDuPont Inc.
- Dyadic International, Inc.
- HAYASHIBARA CO., LTD.
- logen Corporation
- Maps Enzymes Ltd
- Novozymes A/S
- Novus International, Inc.
- Royal DSM N.V.
- Specialty Enzymes & Biotechnologies Co.
- Sunson Industry Group

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### About Industry Experts

Industry Experts’ market research, backed by years of experience and an analytical team dedicated to providing the most optimal business solutions, has been specifically designed to provide a variety of benefits, both current and future. Our leading-edge publications make the life easy for corporate strategists, investors, analysts and researchers, startups, consultants, financial and banking executives, academicians and many more. The company also provides customized research reports to cater the needs of the industry.

Business intelligence provides the critical link between comprehending prevailing market conditions and devising strategies to maximize parameters, such as revenues, profits and return on investment in order to gain market share. The significance of market research can be largely understood through the range of factors that impact businesses. These can comprise market size (current and projected), geographic market reach and demand and supply scenario, to name a few. Our ongoing quest to collect up to date and accurate information by conducting online surveys, personal interviews, taking the opinions of senior level executives will enable us to serve our clients better in every possible aspect.



**INDUSTRY EXPERTS**  
 1-7-19/C, Street No. 8, Habsiguda  
 Hyderabad – 500007, India  
 Phone: +91-40-4018-1314  
 Fax: +91-40-4027-2381  
[info@industry-experts.com](mailto:info@industry-experts.com)  
[industry-experts.com](http://industry-experts.com)

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