Proteases Market by Source (Microbial, Animal, Plant), Formulation (Liquid, Lyophilized Powder), Product (Renin, Papain, Alkaline), Application (Food & Beverages, Feed, Soaps & Detergents, Pharmaceutical), & by Region - Global Forecast to 2021

Description: This report analyzes the proteases market, in terms of source, application, methods of production, formulation, product, and region. The proteases market has grown rapidly in the last few years and is projected to reach a value of USD 2.21 billion in 2021 at a CAGR of 6% from 2016 to 2021. The primary factors driving the global success of proteases are the increasing demand of proteases in diverse industries including food & beverages, livestock feed, soaps & detergent, pharmaceuticals, other industries due to the advancements in technology, economic efficiency, and ecological benefits.

“Pharmaceuticals is the fastest growing application in the proteases market”

On the basis of application, the proteases market is segmented into food & beverages, livestock feed, soaps & detergent, pharmaceuticals, others (textile & leather, waste management, chemical industries, silver recovery, photography, and biofuel). Among all the applications of proteases, the pharmaceutical segment is projected to be the fastest-growing application from 2016 to 2021. The growing incidence of diseases and increasing consumer awareness on disease prevention and treatment measures are the driving factors for the pharmaceutical segment.

“China and India: The future of the proteases industry”

North America dominated the global proteases market in 2015. The Asia-Pacific region is projected to be the fastest-growing market from 2016 to 2021. The markets are growing in China and India due to the increasing disposable income of the people, growing urban population, abundance of human capital along with government support to promote the growth of biotechnology, and ease of doing business in developing countries, making way for profitable returns.

Break-up of primaries:
- By Company Type: Tier 1 – 50 %, Tier 2 – 20%, and Tier 3 – 30%
- By Designation: C level – 28%, Director level –22%, Others – 50%
- By Region: North America – 40%, Europe – 30%, Asia-Pacific – 21%, RoW – 9%

Leading players in the proteases market are Chr. Hansen Holdings A/S (Denmark), E.I. du Pont de Nemours and Company (U.S.), Associated British Foods plc (U.K.), Koninklijke DSM N.V. (The Netherlands), and Novozymes A/S (Denmark). Other players include Dyadic International Incorporated (U.S.), Advanced Enzyme Technologies Ltd. (India), Biocatalysts Limited (U.K.), Amano Enzyme Inc. (Japan), and Specialty Enzymes and Biotechnologies (U.S.).

Reasons to buy this report:
- To get a comprehensive overview of the global proteases market
- To gain wide-ranging information about the top players in this industry, their product portfolios, and key strategies adopted by them
- To gain insights into the major countries/regions in which the demand for proteases is flourishing
- To understand the trends involved in the proteases market

Contents:
1 Introduction
1.1 Objectives of the Study
1.2 Market Definition
1.3 Study Scope
1.3.1 Markets Covered
1.3.2 Periodization Considered for the Study
1.4 Currency Considered
1.5 Stakeholders

2 Research Methodology
2.1 Research Data
2.1.1 Secondary Data
2.1.1.1 Key Data From Secondary Sources
2.1.2 Primary Data
2.1.2.1 Key Data From Primary Sources
2.1.2.2 Breakdown of Primary Interviews
2.2 Factor Analysis
2.2.1 Introduction
2.2.2 Demand-Side Analysis
2.2.2.1 Increasing Adoption of Biofuels and Growing Textile & Leather Industries
2.2.2.2 Increasing Per Capita Global GDP Over the Years
2.2.2.3 Emerging and Developing Economies With Higher GDP (PPP)
2.2.3 Supply-Side Analysis
2.2.3.1 Research & Development of Proteases
2.3 Market Size Estimation
2.3.1 Bottom-Up Approach
2.3.2 Top-Down Approach
2.4 Market Breakdown & Data Triangulation
2.5 Research Assumptions & Limitations
2.5.1 Assumptions
2.5.2 Limitations

3 Executive Summary

4 Premium Insights
4.1 Opportunities in the Proteases Market
4.2 Proteases Market: Major Countries
4.3 Life Cycle Analysis: Proteases Market, By Region
4.4 Asia-Pacific Proteases Market, By Application & Region
4.5 Developed vs Emerging Proteases Markets
4.6 Proteases Market Size, By Methods of Production
4.7 Proteases Formulation Market, By Region

5 Market Overview
5.1 Introduction
5.2 Market Segmentation
5.3 Evolution of Enzymes
5.4 Market Dynamics
5.4.1 Market Drivers
5.4.1.1 Diverse Functionality in Food
5.4.1.2 Importance in Laundry and Detergent Application
5.4.1.3 Reduction in Feed Costs and Optimization of Nutritional Value in Feed
5.4.1.4 Proteases Functionality in Feed to Drive Its Demand in Livestock Industry
5.4.1.5 Increasing Production & Consumption of Meat to Fuel Demand for Proteases in Feed and Food Industry
5.4.1.6 Wide Use in Infant Food Formulas
5.4.1.7 Sustainability as A Result of Various Sources
5.4.1.8 Advancements in R&D Activities for Proteases
5.4.2 Restraints
5.4.2.1 Government Restraints & Regulations
5.4.2.2 Lack of Transparency in Patent Protection Laws
5.4.3 Opportunities
5.4.3.1 Proteases as A Class of Therapeutic Agents
5.4.3.2 Increase in Demand for Environmental and Health-Friendly Products
5.4.3.3 Emerging Economies With High Growth Potential
5.4.4 Challenges
5.4.4.1 Effective Storage
5.4.4.2 Concerns Over Cost, Quality, Safety, and Consumer Perception About Enzymes

6 Industry Trends
6.1 Introduction
6.2 Value Chain Analysis
6.3 Supply Chain
6.4 Industry Insights
6.5 Porter's Five Forces Analysis
6.5.1 Threat of New Entrants
6.5.2 Threat of Substitutes
6.5.3 Bargaining Power of Suppliers
6.5.4 Bargaining Power of Buyers
6.5.5 Intensity of Competitive Rivalry
6.6 Regulatory Framework

7 Proteases Market, By Source
7.1 Introduction
7.2 Animal Sources
7.3 Plant Sources
7.4 Microbial Sources

8 Proteases Enzymes Market, By Product
8.1 Animal Product
8.1.1 Trypsin
8.1.2 Pepsin
8.1.3 Renin
8.1.4 Others
8.2 Plant
8.2.1 Papain
8.2.2 Bromelain
8.2.3 Others (Keratinases and Ficin)
8.3 Microbial
8.3.1 Alkaline Protease
8.3.2 Acid Protease
8.3.3 Neutral Protease

9 Proteases Market, By Method of Production
9.1 Introduction
9.2 Fermentation
9.3 Extraction

10 Proteases Market, By Formulation
10.1 Introduction
10.2 Liquid Formulations
10.3 Lyophilized Powder
10.4 Others

11 Proteases Market, By Application
11.1 Introduction
11.2 Food & Beverages
11.2.1 Dairy Industry
11.2.2 Bakery Enzymes
11.2.3 Processed Foods
11.2.4 Meat
11.2.5 Beverages
11.3 Feed
11.4 Soap & Detergent Industry
11.5 Pharmaceuticals
11.6 Others

12 Proteases Market, By Region
12.1 Introduction
12.2 North America
12.2.1 U.S.
12.2.2 Canada
12.2.3 Mexico
12.3 Europe
12.3.1 U.K.
12.3.2 Germany
12.3.3 France
12.3.4 Italy
12.3.5 Rest of Europe
12.4 Asia-Pacific
12.4.1 China
12.4.2 Japan
12.4.3 India
12.4.4 Rest of Asia-Pacific
12.5 Rest of the World (RoW)
12.5.1 Latin America
12.5.2 Africa
12.5.3 Middle East

13 Competitive Landscape
13.1 Overview
13.2 Market Share Analysis
13.3 Competitive Situation & Trends
13.3.1 Expansions & Investments
13.3.2 New Product Launches
13.3.3 Acquisitions
13.3.4 Collaborations, Agreements, Joint Ventures, and Partnerships

14 Company Profiles
(Company at A Glance, Recent Financials, Products & Services, Strategies & Insights, & Recent Developments)*
14.1 Introduction
14.2 Novozymes A/S
14.3 Chr. Hansen Holdings A/S
14.4 E. I. Du Pont De Nemours and Company
14.5 Associated British Foods PLC
14.6 Koninklijke DSM N.V.
14.7 Advanced Enzyme Technologies Ltd.
14.8 Dyadic International Incorporated
14.9 Amano Enzyme Inc.
14.10 Biocatalysts Limited
14.11 Specialty Enzymes & Biotechnologies

*Details on Company at A Glance, Recent Financials, Products & Services, Strategies & Insights, & Recent Developments Might Not Be Captured in Case of Unlisted Companies.

15 Appendix
15.1 Discussion Guide
15.2 More Company Developments
15.2.1 Expansions & Investments
15.2.2 New Product Launches & Approvals
15.2.3 Collaborations, Agreements, Joint Ventures, and Partnerships
15.2.4 Acquisitions & Strategic Alliance
15.3 Knowledge Store: Marketsandmarkets' Subscription Portal
15.4 Introducing Rt: Real Time Market Intelligence
15.5 Available Customizations
15.6 Related Reports

List of Tables
Table 1 Per Capita Consumption of Livestock Products
Table 2 Industry Insights: Leading Trends Among Key Players
Table 3 List of Regulatory Bodies
Table 4 Types of Proteases Along With Functional Groups and Their Sources
Table 5 Proteases Market Size, By Source, 2014-2021 (USD Million)
Table 6 Types of Proteases and Their Sources
Table 7 Animal-Sourced Proteases Market Size, By Region, 2014-2021 (USD Million)
Table 8 Plant-Sourced Proteases Market Size, By Region, 2014-2021 (USD Million)
Table 9 Types of Proteases and Microbial Sources
Table 10 Proteases Market Size, By Microbial Source, 2014-2021 (USD Million)
Table 11 Microbial-Sourced Proteases Market Size, By Region, 2014-2021 (USD Million)
Table 12 Proteases Market Size, By Animal Product, 2014-2021 (USD Million)
Table 13 Proteases Market Size, By Plant Product, 2014-2021 (USD Million)
Table 14 Proteases Market Size, By Microbial Product, 2014-2021 (USD Million)
Table 15 Proteases Market Size, By Method of Production, 2014-2021 (USD Million)
Table 16 Use of Proteases in Brewing
Table 17 Fermentation: Proteases Market Size, By Region, 2014-2021 (USD Million)
Table 18 Extraction: Proteases Market Size, By Region, 2014-2021 (USD Million)
Table 19 Proteases Market Size, By Formulation, 2014-2021 (USD Million)
Table 20 Liquid Formulation Market Size, By Region, 2014-2021 (USD Million)
Table 21 Lyophilized Powder Market Size, By Region, 2014-2021 (USD Million)
Table 22 Other Formulations Market Size, By Region, 2014-2021 (USD Million)
Table 23 Proteases Market Size, By Application, 2014-2021 (USD Million)
Table 24 Application Area of Various Types of Proteases in the Food Industry
Table 25 Food & Beverages Market Size, By Region, 2014-2021 (USD Million)
Table 26 Proteases in Food & Beverages Market Size, By Sub-Applications, 2014-2021 (USD Million)
Table 27 Feed Market Size, By Region, 2014-2021 (USD Million)
Table 28 Soaps & Detergents Market Size, By Region, 2014-2021 (USD Million)
Table 29 Pharmaceuticals Market Size, By Region, 2014-2021 (USD Million)
Table 30 Proteases Market Size for Other Applications, By Region, 2014-2021 (USD Million)
Table 31 North America: Proteases Market Size, By Country, 2014-2021 (USD Million)
Table 32 North America: Proteases Market Size, By Source, 2014-2021 (USD Million)
Table 33 North America: Proteases Market Size, By Formulation, 2014-2021 (USD Million)
Table 34 North America: Proteases Market Size, By Method of Production, 2014-2021 (USD Million)
Table 35 Europe: Proteases Market Size, By Country, 2014-2021 (USD Million)
Table 36 Europe: Proteases Market Size, By Source, 2014-2021 (USD Million)
Table 37 Europe: Proteases Market Size, By Formulation, 2014-2021 (USD Million)
Table 38 Europe: Proteases Market Size, By Method of Production, 2014-2021 (USD Million)
Table 39 U.K.: Proteases Market Size, By Source, 2014-2021 (USD Million)
Table 40 Germany: Proteases Market Size, By Source, 2014-2021 (USD Million)
Table 41 France: Proteases Market Size, By Source, 2014-2021 (USD Million)
Table 42 Italy: Proteases Market Size, By Source, 2014-2021 (USD Million)
Table 43 Rest of Europe: Proteases Market Size, By Source, 2014-2021 (USD Million)
Table 44 Asia-Pacific: Proteases Market Size, By Country, 2014-2021 (USD Million)
Table 45 Asia-Pacific: Proteases Market Size, By Source, 2014-2021 (USD Million)
Table 46 Asia-Pacific: Proteases Market Size, By Formulation, 2014-2021 (USD Million)
Table 47 Asia-Pacific: Proteases Market Size, By Method of Production, 2014-2021 (USD Million)
Table 48 China: Proteases Market Size, By Source, 2014-2021 (USD Million)
Table 49 Japan: Proteases Market Size, By Source, 2014-2021 (USD Million)
Table 50 India: Proteases Market Size, By Source, 2014-2021 (USD Million)
Table 51 Rest of Asia-Pacific: Proteases Market Size, By Source, 2014-2021 (USD Million)
Table 52 RoW: Proteases Market Size, By Region, 2014-2021 (USD Million)
Table 53 RoW: Proteases Market Size, By Source, 2014-2021 (USD Million)
Table 54 RoW: Proteases Market Size, By Formulation, 2014-2021 (USD Million)
Table 55 RoW: Proteases Market Size, By Method of Production, 2014-2021 (USD Million)
Table 56 Latin America: Proteases Market Size, By Country, 2014-2021 (USD Million)
Table 57 Latin America: Proteases Market Size, By Source, 2014-2021 (USD Million)
Table 58 Latin America: Proteases Market Size, By Formulation, 2014-2021 (USD Million)
Table 59 Latin America: Proteases Market Size, By Method of Production, 2014-2021 (USD Million)
Table 60 Africa: Proteases Market Size, By Source, 2014-2021 (USD Million)
Table 61 Middle East: Proteases Market Size, By Source, 2014-2021 (USD Million)
Table 62 Middle East: Proteases Market Size, By Formulation, 2014-2021 (USD Million)
Table 63 Expansions & Investments, 2010-2015
Table 64 New Product Launches, 2010-2015
Table 65 Acquisitions, 2010-2015
Table 66 Collaborations, Agreements, Joint Ventures, and Partnerships, 2010-2015
Table 67 Expansions & Investments, 2011-2016
Table 68 New Product Launches & Approvals, 2011-2016
Table 69 Collaborations, Agreements, Joint Ventures, and Partnerships, 2010-2015
Table 70 Acquisitions & Strategic Alliance, 2011-2015

List of Figures
Figure 1 Proteases Market Segmentation
Figure 2 Proteases Market, By Region
Figure 3 Research Design: Proteases Market
Figure 4 Breakdown of Primary Interviews: By Company Type, Designation, and Region
Figure 5 Global Carbon Emissions From Fossil Fuels, 1970-2010
Figure 6 Global Apparel Retail Industry to Continue an Upward Trend
Figure 7 Global Per Capita GDP, 2008-2014
Figure 8 Market Size Estimation Methodology: Bottom-Up Approach
Figure 9 Market Size Estimation Methodology: Top-Down Approach
Figure 10 Data Triangulation
Figure 11 Assumptions of the Study
Figure 12 Proteases Market Snapshot, By Source, 2016 vs 2021
Figure 13 Proteases Market Size, By Application, 2016-2021
Figure 14 Proteases Market Size, By Production Method, 2016-2021
Figure 15 Proteases Market Size, By Formulation, 2016-2021
Figure 16 Proteases Market Share (Value), By Region, 2016
Figure 17 Growing Adoption of Proteases in the Meat Industry and Upsurge in the Usage of Proteases in Infant Food Formulation Will Drive Growth of the Proteases Market
Figure 18 Emerging Markets in Asia-Pacific Poised for High Growth From 2016
Figure 19 Asia-Pacific Market Poised for Robust Growth, 2016 to 2021
Figure 20 Pharmaceuticals Segment Dominated the Asia-Pacific Market in 2015
Figure 21 Emerging Economies are Projected to Drive the Consumption of Proteases During the Forecast Period (2016-2021)
Figure 22 Fermentation Segment is Expected to Hold the Largest Share in the Proteases Market Throughout the Forecast Period (2016-2021)
Figure 23 Lyophilized Powder Segment Poised for Significant Growth in the Proteases Market, 2016-2021
Figure 24 Proteases Market: Market Segmentation
Figure 25 Evolution of Enzymes
Figure 26 Proteases Enzymes Market: Market Dynamics
Figure 27 Research and Enzyme Development Contributes Maximum Value to the Overall Worth of the Proteases Market
Figure 28 Enzyme Development and Production Plays A Vital Role in the Supply Chain of the Proteases Market
Figure 29 Porter's Five Forces Analysis: Proteases Market
Figure 30 Asia-Pacific is Projected to Grow at the Highest Rate During the Forecast Period (2016-2021)
Figure 31 Asia-Pacific is Projected to Dominate the Proteases Market Throughout the Forecast Period (2016-2021)
Figure 32 Proteases Market Share, By Method of Production, 2016
Figure 33 Proteases Market Share, By Formulation, 2016-2021
Figure 34 Soaps & Detergents is Estimated to Dominate the Proteases Enzymes Market, 2016
Figure 35 Proteolytic Hydrolysis Process in Cheese Making
Figure 36 Food & Beverages Market Size, By Region, 2016 vs 2021
Figure 37 Soaps & Detergents Market Size, By Region, 2016 vs 2021
Figure 38 Geographic Snapshot (2016-2021): Asia-Pacific Markets are Emerging as New Hot Spots
Figure 39 North American Proteases Market Snapshot: U.S. Dominated the Market With the Largest Share in 2015
Figure 40 European Proteases Market: Germany Dominated the Market With the Largest Share in 2015
Figure 41 Asia-Pacific Proteases Market: China & India to Drive Regional Market Growth
Figure 42 RoW Proteases Market: Latin America to Drive Regional Market Growth
Figure 43 Key Companies Preferred Expansion & Investment Over Other Strategies Between 2010 & 2015
Figure 44 Market Share Analysis. 2015
Figure 45 Key Players Extensively Adopted Expansions & Investments, New Product Launches, and Acquisitions Strategies to Fuel Growth of the Proteases Market Between 2010 & 2015
Figure 46 Annual Developments in the Global Proteases Market, 2010-2015
Figure 47 Geographic Revenue Mix of Top Five Market Players
Figure 48 Novozymes A/S: Company Snapshot
Figure 49 Novozymes A/S: SWOT Analysis
Figure 50 Company Snapshot: Chr. Hansen Holdings A/S
Figure 51 Chr. Hansen Holdings A/S: SWOT Analysis
Figure 52 E. I. Du Pont De Nemours and Company: Company Snapshot
Figure 53 E. I. Du Pont De Nemours and Company: SWOT Analysis
Figure 54 Associated British Food PLC: Company Snapshot
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct and select the format(s) you require.

Product formats

Product Name: Proteases Market by Source (Microbial, Animal, Plant), Formulation (Liquid, Lyophilized Powder), Product (Renin, Papain, Alkaline), Application (Food & Beverages, Feed, Soaps & Detergents, Pharmaceutical), & by Region - Global Forecast to 2021

Web Address: http://www.researchandmarkets.com/reports/3758161/
Office Code: SCBRGYDW

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Quantity</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic (PDF)</td>
<td>USD 5650</td>
</tr>
<tr>
<td>Single User:</td>
<td>USD 6650</td>
</tr>
<tr>
<td>1 - 5 Users:</td>
<td>USD 8150</td>
</tr>
<tr>
<td>Site License:</td>
<td>USD 10000</td>
</tr>
</tbody>
</table>

Contact Information
Please enter all the information below in BLOCK CAPITALS

Title: [ ] Mr  [ ] Mrs  [ ] Dr  [ ] Miss  [ ] Ms  [ ] Prof
First Name: __________________________ Last Name: __________________________
Email Address: * __________________________
Job Title: __________________________
Organisation: __________________________
Address: __________________________
City: __________________________
Postal / Zip Code: __________________________
Country: __________________________
Phone Number: __________________________
Fax Number: __________________________

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:
Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: ________________________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World