

Protein Engineering Market by Technology (Rational Design, Irrational Design), Product & Service (Instrument, Consumables), Protein Type (Monoclonal Antibodies, Insulin), End User (Academics Institutes, Biopharmaceuticals, CROs) - Global Forecast to 2024

<https://marketpublishers.com/r/PB44D1ECF62EN.html>

Date: January 2020

Pages: 147

Price: US\$ 5,650.00 (Single User License)

ID: PB44D1ECF62EN

Abstracts

“The increasing focus on protein-based drug development by pharmaceutical and biotechnology firms is expected to drive the overall growth of the protein engineering market”

The global protein engineering market is estimated to grow from USD 2.2 billion in 2019 to USD 3.9 billion by 2024, at a CAGR of 12.4% during the forecast period. The major factors driving the growth of this market include the increasing investments in synthetic biology and the growing focus on protein-based drug development by pharmaceutical and biotechnology companies.

“Instruments segment to account for the largest share of the protein engineering market, by product & service, in 2019”

Based on product & service, the protein engineering market is segmented into instruments, consumables, and software & services. Instruments formed the largest product segment in this market in 2019 due to technological advancements in mass spectrometry and X-ray crystallography systems and their ability to integrate with other technologies.

“Monoclonal antibodies segment to grow at the highest CAGR in the protein engineering market, by protein type, in 2019”

Based on protein type, the protein engineering market is segmented into monoclonal antibodies, insulin, erythropoietin, interferons, vaccines, colony-stimulating factors, growth hormones, coagulation factors, and other proteins. The monoclonal antibodies segment is estimated to grow at the highest CAGR in this market owing to the increasing demand for monoclonal antibodies for the treatment of cancer, neurological diseases, and infectious diseases.

“Rational protein design segment to grow at the highest CAGR in the protein engineering market, by technology, in 2019”

Based on technology, the protein engineering market is segmented into rational and irrational protein design. The rational protein design segment is estimated to grow at the highest CAGR in this market during the forecast period majorly due to the growing use and continuous upgrades of bioinformatics platforms and software for protein analysis.

“North America is estimated to be the largest regional market for protein engineering products and services during the forecast period”

In 2019, North America accounted for the largest share of the global protein engineering market, majorly due to the presence of well-established CROs, rising R&D expenditure, and the availability of the latest techniques and instruments for drug discovery research in the region. Also, the increased adoption of biologic drugs such as monoclonal antibodies, erythropoietin, and interferons for the treatment of chronic diseases is the major factor driving the growth of the North American market.

In-depth interviews were conducted with CEOs, marketing directors, other innovation and technology directors, and executives from various key organizations operating in the protein engineering market. Mentioned below is the breakdown of the interviews:

By Respondent Type: Supply Side: 80%, Demand Side: 20%

By Designation: C-level Executives: 25%, Directors: 18%, Others: 57%

By Region: North America: 50%, Europe: 20%, APAC: 20%, RoW: 10%

The major players operating in the global protein engineering market include Thermo Fisher Scientific (US), Bio-Rad Laboratories (US), Agilent Technologies (US), Waters Corporation (US), and Danaher Corporation (US).

Research Coverage:

The study covers the protein engineering market across various segments. It aims at estimating the market size and the growth potential of this market across different product & service, protein type, technology, end user, and regional segments. The study also includes an in-depth competitive analysis of the key players operating in the market, along with their company profiles, key observations related to their product and business offerings, recent developments, and key market strategies.

Key Benefits of Buying the Report:

This report will help market leaders as well as new entrants in the market by providing information on the closest approximations of the revenue numbers for the overall protein engineering market and its subsegments. It will also help stakeholders to understand the competitive landscape, gain more insights to better position their businesses, and plan suitable go-to-market strategies.

Contents

1 INTRODUCTION

- 1.1 OBJECTIVES OF THE STUDY
- 1.2 MARKET DEFINITION
- 1.3 MARKETS COVERED
- 1.4 YEARS CONSIDERED FOR THE STUDY
- 1.5 CURRENCY
- 1.6 LIMITATIONS
- 1.7 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
- 2.2 MARKET SIZE ESTIMATION
- 2.3 DATA TRIANGULATION
 - 2.3.1 ASSUMPTIONS FOR THE STUDY
 - 2.3.2 LIMITATIONS

3 EXECUTIVE SUMMARY

4 PREMIUM INSIGHTS

- 4.1 PROTEIN ENGINEERING MARKET OVERVIEW
- 4.2 ASIA PACIFIC: PROTEIN ENGINEERING MARKET, BY PRODUCT (2018)
- 4.3 PROTEIN ENGINEERING MARKET, BY END USER (2018)
- 4.4 PROTEIN ENGINEERING MARKET, BY REGION (2018)

5 MARKET OVERVIEW

- 5.1 INTRODUCTION
- 5.2 MARKET DYNAMICS
 - 5.2.1 DRIVERS
 - 5.2.1.1 Increasing investments in synthetic biology

5.2.1.2 Growing focus on protein-based drug development by pharmaceutical & biotechnology firms

5.2.2 RESTRAINTS

5.2.2.1 High cost of instruments

5.2.3 OPPORTUNITIES

5.2.3.1 Emerging markets

6 PROTEIN ENGINEERING MARKET, BY PRODUCT & SERVICE

6.1 INTRODUCTION

6.2 INSTRUMENTS

6.2.1 INSTRUMENTS WILL CONTINUE TO DOMINATE THE PROTEIN ENGINEERING MARKET IN THE FORECAST PERIOD

6.3 CONSUMABLES

6.3.1 INCREASING DEMAND FOR CONSUMABLES IN PROTEOMICS RESEARCH IS SUPPORTING MARKET GROWTH

6.4 SOFTWARE & SERVICES

6.4.1 SOFTWARE & SERVICES SEGMENT TO WITNESS THE HIGHEST GROWTH BETWEEN 2019 AND 2024

7 PROTEIN ENGINEERING MARKET, BY PROTEIN TYPE

7.1 INTRODUCTION

7.2 MONOCLONAL ANTIBODIES

7.2.1 ACCURATE BINDING CAPACITY AND SPECIFICITY HAVE SUPPORTED THE USE OF MABS

7.3 INSULIN

7.3.1 INCREASING BURDEN OF DIABETES HAS DRIVEN THE DEMAND FOR INSULIN

7.4 ERYTHROPOIETINS

7.4.1 CONTINUOUS RESEARCH AND FUNDING TO PROMOTE THE GROWTH OF ERYTHROPOIETINS

7.5 INTERFERONS

7.5.1 RISING ANEMIA INCIDENCE IS A KEY DRIVER OF THE MARKET FOR INTERFERONS

7.6 VACCINES

7.6.1 HIGH INCIDENCE OF DISEASES SUCH AS HEPATITIS AND INFLUENZA LIKELY TO BOOST MARKET GROWTH

7.7 COLONY-STIMULATING FACTORS

7.7.1 DEMAND FOR CSF IN BONE AND INFLAMMATION TREATMENT LIKELY TO BOOST THE MARKET

7.8 GROWTH HORMONES

7.8.1 DEMAND FOR HORMONE THERAPIES LIKELY TO BOOST THE MARKET

7.9 COAGULATION FACTORS

7.9.1 THE NEED TO COMBAT HEMOPHILIA IS EXPECTED TO BE THE PRIMARY GROWTH DRIVER FOR THIS MARKET SEGMENT

7.10 OTHER PROTEINS

8 PROTEIN ENGINEERING MARKET, BY TECHNOLOGY

8.1 INTRODUCTION

8.2 RATIONAL PROTEIN DESIGN

8.2.1 ADVANCEMENTS IN BIOINFORMATICS TOOLS TO PROPEL MARKET GROWTH

8.3 IRRATIONAL PROTEIN DESIGN/DIRECTED EVOLUTION

8.3.1 THIS PROCESS INVOLVES A NUMBER OF UNCERTAINTIES, WHICH MAY LIMIT MARKET GROWTH TO A CERTAIN EXTENT

9 PROTEIN ENGINEERING MARKET, BY END USER

9.1 INTRODUCTION

9.2 BIOPHARMACEUTICAL COMPANIES

9.2.1 BIOPHARMACEUTICAL COMPANIES DOMINATE THE PROTEIN ENGINEERING MARKET

9.3 CONTRACT RESEARCH ORGANIZATIONS

9.3.1 INCREASING NEED FOR OUTSOURCING PROTEIN ENGINEERING ACTIVITIES TO CROSS TO SUPPORT MARKET GROWTH

9.4 ACADEMIC RESEARCH INSTITUTES

9.4.1 NEED FOR NOVEL PROTEINS FOR THE PRODUCTION OF BIOTHERAPEUTICS TO BOOST MARKET GROWTH

10 PROTEIN ENGINEERING MARKET, BY REGION

10.1 INTRODUCTION

10.2 NORTH AMERICA

10.2.1 US

10.2.1.1 Patent expiry and increasing research funds

10.2.2 CANADA

- 10.2.2.1 R&D activities in research institutes and universities to drive market growth
- 10.3 EUROPE
 - 10.3.1 GERMANY
 - 10.3.1.1 Strong R&D base and presence of research centers to drive market growth
 - 10.3.2 UK
 - 10.3.2.1 Strong preclinical pipeline to support market growth
 - 10.3.3 FRANCE
 - 10.3.3.1 Conference and events in France likely to create awareness
 - 10.3.4 REST OF EUROPE
- 10.4 ASIA PACIFIC
 - 10.4.1 JAPAN
 - 10.4.1.1 Government initiatives in genomics and proteomics are likely to support market growth in Japan
 - 10.4.2 CHINA
 - 10.4.2.1 Presence of a favorable funding scenario and collaborations will drive market growth
 - 10.4.3 INDIA
 - 10.4.3.1 Government initiatives will propel market growth in India
 - 10.4.4 REST OF ASIA PACIFIC
- 10.5 REST OF THE WORLD

11 COMPETITIVE LANDSCAPE

- 11.1 INTRODUCTION
- 11.2 MARKET RANK ANALYSIS, 2018
- 11.3 COMPETITIVE LEADERSHIP MAPPING (2019)
 - 11.3.1 VENDOR INCLUSION CRITERIA
 - 11.3.2 VISIONARY LEADERS
 - 11.3.3 INNOVATORS
 - 11.3.4 DYNAMIC DIFFERENTIATORS
 - 11.3.5 EMERGING COMPANIES
- 11.4 COMPETITIVE SCENARIO
 - 11.4.1 PARTNERSHIPS, AGREEMENTS, AND COLLABORATIONS (2016–2019)
 - 11.4.2 PRODUCT LAUNCHES & ENHANCEMENTS (2016–2019)
 - 11.4.3 EXPANSIONS (2016–2019)
 - 11.4.4 ACQUISITIONS (2016–2019)

12 COMPANY PROFILES

(Business Overview, Products Offered, Recent Developments, MnM View)*

- 12.1 THERMO FISHER SCIENTIFIC, INC.
- 12.2 DANAHER CORPORATION
- 12.3 AGILENT TECHNOLOGIES, INC.
- 12.4 BIO-RAD LABORATORIES, INC.
- 12.5 BRUKER CORPORATION
- 12.6 GENSCRIPT BIOTECH CORPORATION
- 12.7 CODEXIS, INC.
- 12.8 WATERS CORPORATION
- 12.9 NEW ENGLAND BIOLABS, INC.
- 12.10 MERCK KGAA
- 12.11 PERKINELMER, INC.
- 12.12 GE HEALTHCARE
- 12.13 CREATIVE BIOLABS
- 12.14 ENANTIS S.R.O.
- 12.15 PROMEGA CORPORATION
- 12.16 ABZENA, LTD.
- 12.17 PROTEOGENIX
- 12.18 INNOVAGEN AB
- 12.19 PHYNEXUS, INC. (A PART OF BIOTAGE)
- 12.20 TAKARA BIO, INC.

*Business Overview, Products Offered, Recent Developments, MnM View might not be captured in case of unlisted companies.

13 APPENDIX

- 13.1 DISCUSSION GUIDE
- 13.2 KNOWLEDGE STORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL
- 13.3 AVAILABLE CUSTOMIZATIONS
- 13.4 RELATED REPORTS
- 13.5 AUTHOR DETAILS

LIST OF TABLES

TABLE 1 PROTEIN ENGINEERING MARKET, BY PRODUCT & SERVICE, 2017–2024 (USD MILLION)

TABLE 2 PROTEIN ENGINEERING INSTRUMENTS MARKET, BY REGION, 2017–2024 (USD MILLION)

TABLE 3 NORTH AMERICA: PROTEIN ENGINEERING INSTRUMENTS MARKET, BY

COUNTRY, 2017–2024 (USD MILLION)

TABLE 4 EUROPE: PROTEIN ENGINEERING INSTRUMENTS MARKET, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 5 APAC: PROTEIN ENGINEERING INSTRUMENTS MARKET, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 6 PROTEIN ENGINEERING CONSUMABLES MARKET, BY REGION, 2017–2024 (USD MILLION)

TABLE 7 NORTH AMERICA: PROTEIN ENGINEERING CONSUMABLES MARKET, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 8 EUROPE: PROTEIN ENGINEERING CONSUMABLES MARKET, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 9 APAC: PROTEIN ENGINEERING CONSUMABLES MARKET, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 10 PROTEIN ENGINEERING SOFTWARE & SERVICES MARKET, BY REGION, 2017–2024 (USD MILLION)

TABLE 11 NORTH AMERICA: PROTEIN ENGINEERING SOFTWARE & SERVICES MARKET, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 12 EUROPE: PROTEIN ENGINEERING SOFTWARE & SERVICES MARKET, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 13 APAC: PROTEIN ENGINEERING SOFTWARE & SERVICES MARKET, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 14 PROTEIN ENGINEERING MARKET, BY PROTEIN TYPE, 2017–2024 (USD MILLION)

TABLE 15 PROTEIN ENGINEERING MARKET FOR MONOCLONAL ANTIBODIES, BY REGION, 2017–2024 (USD MILLION)

TABLE 16 NORTH AMERICA: PROTEIN ENGINEERING MARKET FOR MONOCLONAL ANTIBODIES, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 17 EUROPE: PROTEIN ENGINEERING MARKET FOR MONOCLONAL ANTIBODIES, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 18 APAC: PROTEIN ENGINEERING MARKET FOR MONOCLONAL ANTIBODIES, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 19 PROTEIN ENGINEERING MARKET FOR INSULIN, BY REGION, 2017–2024 (USD MILLION)

TABLE 20 NORTH AMERICA: PROTEIN ENGINEERING MARKET FOR INSULIN, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 21 EUROPE: PROTEIN ENGINEERING MARKET FOR INSULIN, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 22 APAC: PROTEIN ENGINEERING MARKET FOR INSULIN, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 23 PROTEIN ENGINEERING MARKET FOR ERYTHROPOIETINS, BY REGION, 2017–2024 (USD MILLION)

TABLE 24 NORTH AMERICA: PROTEIN ENGINEERING MARKET FOR ERYTHROPOIETINS, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 25 EUROPE: PROTEIN ENGINEERING MARKET FOR ERYTHROPOIETINS, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 26 APAC: PROTEIN ENGINEERING MARKET FOR ERYTHROPOIETINS, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 27 PROTEIN ENGINEERING MARKET FOR INTERFERONS, BY REGION, 2017–2024 (USD MILLION)

TABLE 28 NORTH AMERICA: PROTEIN ENGINEERING MARKET FOR INTERFERONS, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 29 EUROPE: PROTEIN ENGINEERING MARKET FOR INTERFERONS, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 30 APAC: PROTEIN ENGINEERING MARKET FOR INTERFERONS, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 31 PROTEIN ENGINEERING MARKET FOR VACCINES, BY REGION, 2017–2024 (USD MILLION)

TABLE 32 NORTH AMERICA: PROTEIN ENGINEERING MARKET FOR VACCINES, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 33 EUROPE: PROTEIN ENGINEERING MARKET FOR VACCINES BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 34 APAC: PROTEIN ENGINEERING MARKET FOR VACCINES, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 35 PROTEIN ENGINEERING MARKET FOR COLONY-STIMULATING FACTORS, BY REGION, 2017–2024 (USD MILLION)

TABLE 36 NORTH AMERICA: PROTEIN ENGINEERING MARKET FOR COLONY-STIMULATING FACTORS, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 37 EUROPE: PROTEIN ENGINEERING MARKET FOR COLONY-STIMULATING FACTORS, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 38 APAC: PROTEIN ENGINEERING MARKET FOR COLONY-STIMULATING FACTORS, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 39 PROTEIN ENGINEERING MARKET FOR GROWTH HORMONES, BY REGION, 2017–2024 (USD MILLION)

TABLE 40 NORTH AMERICA: PROTEIN ENGINEERING MARKET FOR GROWTH HORMONES, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 41 EUROPE: PROTEIN ENGINEERING MARKET FOR GROWTH HORMONES, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 42 APAC: PROTEIN ENGINEERING MARKET FOR GROWTH HORMONES,

BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 43 PROTEIN ENGINEERING MARKET FOR COAGULATION FACTORS, BY REGION, 2017–2024 (USD MILLION)

TABLE 44 NORTH AMERICA: PROTEIN ENGINEERING MARKET FOR COAGULATION FACTORS, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 45 EUROPE: PROTEIN ENGINEERING MARKET FOR COAGULATION FACTORS, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 46 APAC: PROTEIN ENGINEERING MARKET FOR COAGULATION FACTORS, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 47 PROTEIN ENGINEERING MARKET FOR OTHER PROTEINS, BY REGION, 2017–2024 (USD MILLION)

TABLE 48 NORTH AMERICA: PROTEIN ENGINEERING MARKET FOR OTHER PROTEINS, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 49 EUROPE: PROTEIN ENGINEERING MARKET FOR OTHER PROTEINS, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 50 APAC: PROTEIN ENGINEERING MARKET FOR OTHER PROTEINS, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 51 PROTEIN ENGINEERING MARKET, BY TECHNOLOGY, 2017–2024 (USD MILLION)

TABLE 52 PROTEIN ENGINEERING MARKET FOR RATIONAL PROTEIN DESIGN, BY REGION, 2017–2024 (USD MILLION)

TABLE 53 NORTH AMERICA: PROTEIN ENGINEERING MARKET FOR RATIONAL PROTEIN DESIGN, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 54 EUROPE: PROTEIN ENGINEERING MARKET FOR RATIONAL PROTEIN DESIGN, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 55 APAC: PROTEIN ENGINEERING MARKET FOR RATIONAL PROTEIN DESIGN, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 56 PROTEIN ENGINEERING MARKET FOR IRRATIONAL PROTEIN DESIGN, BY REGION, 2017–2024 (USD MILLION)

TABLE 57 NORTH AMERICA: PROTEIN ENGINEERING MARKET FOR IRRATIONAL PROTEIN DESIGN, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 58 EUROPE: PROTEIN ENGINEERING MARKET FOR IRRATIONAL PROTEIN DESIGN, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 59 APAC: PROTEIN ENGINEERING MARKET FOR IRRATIONAL PROTEIN DESIGN, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 60 PROTEIN ENGINEERING MARKET, BY END USER, 2017–2024 (USD MILLION)

TABLE 61 PROTEIN ENGINEERING MARKET FOR BIOPHARMACEUTICAL COMPANIES, BY REGION, 2017–2024 (USD MILLION)

TABLE 62 NORTH AMERICA: PROTEIN ENGINEERING MARKET FOR BIOPHARMACEUTICAL COMPANIES, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 63 EUROPE: PROTEIN ENGINEERING MARKET FOR BIOPHARMACEUTICAL COMPANIES, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 64 APAC: PROTEIN ENGINEERING MARKET FOR BIOPHARMACEUTICAL COMPANIES, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 65 PROTEIN ENGINEERING MARKET FOR CONTRACT RESEARCH ORGANIZATIONS, BY REGION, 2017–2024 (USD MILLION)

TABLE 66 NORTH AMERICA: PROTEIN ENGINEERING MARKET FOR CONTRACT RESEARCH ORGANIZATIONS, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 67 EUROPE: PROTEIN ENGINEERING MARKET FOR CONTRACT RESEARCH ORGANIZATIONS, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 68 APAC: PROTEIN ENGINEERING MARKET FOR CONTRACT RESEARCH ORGANIZATIONS, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 69 PROTEIN ENGINEERING MARKET FOR ACADEMIC RESEARCH INSTITUTES, BY REGION, 2017–2024 (USD MILLION)

TABLE 70 NORTH AMERICA: PROTEIN ENGINEERING MARKET FOR ACADEMIC RESEARCH INSTITUTES, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 71 EUROPE: PROTEIN ENGINEERING MARKET FOR ACADEMIC RESEARCH INSTITUTES, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 72 APAC: PROTEIN ENGINEERING MARKET FOR ACADEMIC RESEARCH INSTITUTES, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 73 PROTEIN ENGINEERING MARKET, BY REGION, 2017–2024 (USD MILLION)

TABLE 74 NORTH AMERICA: PROTEIN ENGINEERING MARKET, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 75 NORTH AMERICA: PROTEIN ENGINEERING MARKET, BY PRODUCT & SERVICE, 2017–2024 (USD MILLION)

TABLE 76 NORTH AMERICA: PROTEIN ENGINEERING MARKET, BY TECHNOLOGY, 2017–2024 (USD MILLION)

TABLE 77 NORTH AMERICA: PROTEIN ENGINEERING MARKET, BY END USER, 2017–2024 (USD MILLION)

TABLE 78 NORTH AMERICA: PROTEIN ENGINEERING MARKET, BY PROTEIN TYPE, 2017–2024 (USD MILLION)

TABLE 79 US: PROTEIN ENGINEERING MARKET, BY PRODUCT & SERVICE, 2017–2024 (USD MILLION)

TABLE 80 US: PROTEIN ENGINEERING MARKET, BY TECHNOLOGY, 2017–2024 (USD MILLION)

TABLE 81 US: PROTEIN ENGINEERING MARKET, BY END USER, 2017–2024 (USD

MILLION)

TABLE 82 US: PROTEIN ENGINEERING MARKET, BY PROTEIN TYPE, 2017–2024 (USD MILLION)

TABLE 83 CANADA: PROTEIN ENGINEERING MARKET, BY PRODUCT & SERVICE, 2017–2024 (USD MILLION)

TABLE 84 CANADA: PROTEIN ENGINEERING MARKET, BY TECHNOLOGY, 2017–2024 (USD MILLION)

TABLE 85 CANADA: PROTEIN ENGINEERING MARKET, BY END USER, 2017–2024 (USD MILLION)

TABLE 86 CANADA: PROTEIN ENGINEERING MARKET, BY PROTEIN TYPE, 2017–2024 (USD MILLION)

TABLE 87 EUROPE: PROTEIN ENGINEERING MARKET, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 88 EUROPE: PROTEIN ENGINEERING MARKET, BY PRODUCT & SERVICE, 2017–2024 (USD MILLION)

TABLE 89 EUROPE: PROTEIN ENGINEERING MARKET, BY TECHNOLOGY, 2017–2024 (USD MILLION)

TABLE 90 EUROPE: PROTEIN ENGINEERING MARKET, BY END USER, 2017–2024 (USD MILLION)

TABLE 91 EUROPE: PROTEIN ENGINEERING MARKET, BY PROTEIN TYPE, 2017–2024 (USD MILLION)

TABLE 92 GERMANY: PROTEIN ENGINEERING MARKET, BY PRODUCT & SERVICE, 2017–2024 (USD MILLION)

TABLE 93 GERMANY: PROTEIN ENGINEERING MARKET, BY TECHNOLOGY, 2017–2024 (USD MILLION)

TABLE 94 GERMANY: PROTEIN ENGINEERING MARKET, BY END USER, 2017–2024 (USD MILLION)

TABLE 95 GERMANY: PROTEIN ENGINEERING MARKET, BY PROTEIN TYPE, 2017–2024 (USD MILLION)

TABLE 96 UK: PROTEIN ENGINEERING MARKET, BY PRODUCT & SERVICE, 2017–2024 (USD MILLION)

TABLE 97 UK: PROTEIN ENGINEERING MARKET, BY TECHNOLOGY, 2017–2024 (USD MILLION)

TABLE 98 UK: PROTEIN ENGINEERING MARKET, BY END USER, 2017–2024 (USD MILLION)

TABLE 99 UK: PROTEIN ENGINEERING MARKET, BY PROTEIN TYPE, 2017–2024 (USD MILLION)

TABLE 100 FRANCE: PROTEIN ENGINEERING MARKET, BY PRODUCT & SERVICE, 2017–2024 (USD MILLION)

TABLE 101 FRANCE: PROTEIN ENGINEERING MARKET, BY TECHNOLOGY, 2017–2024 (USD MILLION)

TABLE 102 FRANCE: PROTEIN ENGINEERING MARKET, BY END USER, 2017–2024 (USD MILLION)

TABLE 103 FRANCE: PROTEIN ENGINEERING MARKET, BY PROTEIN TYPE, 2017–2024 (USD MILLION)

TABLE 104 ROE: PROTEIN ENGINEERING MARKET, BY PRODUCT & SERVICE, 2017–2024 (USD MILLION)

TABLE 105 ROE: PROTEIN ENGINEERING MARKET, BY TECHNOLOGY, 2017–2024 (USD MILLION)

TABLE 106 ROE: PROTEIN ENGINEERING MARKET, BY END USER, 2017–2024 (USD MILLION)

TABLE 107 ROE: PROTEIN ENGINEERING MARKET, BY PROTEIN TYPE, 2017–2024 (USD MILLION)

TABLE 108 APAC: PROTEIN ENGINEERING MARKET, BY COUNTRY, 2017–2024 (USD MILLION)

TABLE 109 APAC: PROTEIN ENGINEERING MARKET, BY PRODUCT & SERVICE, 2017–2024 (USD MILLION)

TABLE 110 APAC: PROTEIN ENGINEERING MARKET, BY TECHNOLOGY, 2017–2024 (USD MILLION)

TABLE 111 APAC: PROTEIN ENGINEERING MARKET, BY END USER, 2017–2024 (USD MILLION)

TABLE 112 APAC: PROTEIN ENGINEERING MARKET, BY PROTEIN TYPE, 2017–2024 (USD MILLION)

TABLE 113 JAPAN: PROTEIN ENGINEERING MARKET, BY PRODUCT & SERVICE, 2017–2024 (USD MILLION)

TABLE 114 JAPAN: PROTEIN ENGINEERING MARKET, BY TECHNOLOGY, 2017–2024 (USD MILLION)

TABLE 115 JAPAN: PROTEIN ENGINEERING MARKET, BY END USER, 2017–2024 (USD MILLION)

TABLE 116 JAPAN: PROTEIN ENGINEERING MARKET, BY PROTEIN TYPE, 2017–2024 (USD MILLION)

TABLE 117 CHINA: PROTEIN ENGINEERING MARKET, BY PRODUCT & SERVICE, 2017–2024 (USD MILLION)

TABLE 118 CHINA: PROTEIN ENGINEERING MARKET, BY TECHNOLOGY, 2017–2024 (USD MILLION)

TABLE 119 CHINA: PROTEIN ENGINEERING MARKET, BY END USER, 2017–2024 (USD MILLION)

TABLE 120 CHINA: PROTEIN ENGINEERING MARKET, BY PROTEIN TYPE,

2017–2024 (USD MILLION)

TABLE 121 INDIA: PROTEIN ENGINEERING MARKET, BY PRODUCT & SERVICE, 2017–2024 (USD MILLION)

TABLE 122 INDIA: PROTEIN ENGINEERING MARKET, BY TECHNOLOGY, 2017–2024 (USD MILLION)

TABLE 123 INDIA: PROTEIN ENGINEERING MARKET, BY END USER, 2017–2024 (USD MILLION)

TABLE 124 INDIA: PROTEIN ENGINEERING MARKET, BY PROTEIN TYPE, 2017–2024 (USD MILLION)

TABLE 125 ROAPAC: PROTEIN ENGINEERING MARKET, BY PRODUCT & SERVICE, 2017–2024 (USD MILLION)

TABLE 126 ROAPAC: PROTEIN ENGINEERING MARKET, BY TECHNOLOGY, 2017–2024 (USD MILLION)

TABLE 127 ROAPAC: PROTEIN ENGINEERING MARKET, BY END USER, 2017–2024 (USD MILLION)

TABLE 128 ROAPAC: PROTEIN ENGINEERING MARKET, BY PROTEIN TYPE, 2017–2024 (USD MILLION)

TABLE 129 ROW: PROTEIN ENGINEERING MARKET, BY PRODUCT & SERVICE, 2017–2024 (USD MILLION)

TABLE 130 ROW: PROTEIN ENGINEERING MARKET, BY TECHNOLOGY, 2017–2024 (USD MILLION)

TABLE 131 ROW: PROTEIN ENGINEERING MARKET, BY END USER, 2017–2024 (USD MILLION)

TABLE 132 ROW: PROTEIN ENGINEERING MARKET, BY PROTEIN TYPE, 2017–2024 (USD MILLION)

LIST OF FIGURES

FIGURE 1 RESEARCH DESIGN

FIGURE 2 BREAKDOWN OF PRIMARY INTERVIEWS: BY COMPANY TYPE, DESIGNATION, AND REGION

FIGURE 3 RESEARCH METHODOLOGY: HYPOTHESIS BUILDING

FIGURE 4 MARKET SIZE ESTIMATION: PROTEIN ENGINEERING MARKET

FIGURE 5 MARKET DATA TRIANGULATION METHODOLOGY

FIGURE 6 PROTEIN ENGINEERING MARKET, BY PRODUCT & SERVICE, 2019 VS. 2024 (USD MILLION)

FIGURE 7 PROTEIN ENGINEERING MARKET, BY PROTEIN TYPE, 2019 VS. 2024

FIGURE 8 PROTEIN ENGINEERING MARKET SHARE, BY TECHNOLOGY, 2018

FIGURE 9 GEOGRAPHICAL SNAPSHOT OF THE PROTEIN ENGINEERING

MARKET

FIGURE 10 INCREASING INVESTMENTS IN SYNTHETIC BIOLOGY TO DRIVE MARKET GROWTH

FIGURE 11 INSTRUMENTS HELD THE LARGEST SHARE OF THE PROTEIN ENGINEERING MARKET IN THE ASIA PACIFIC

FIGURE 12 BIOPHARMACEUTICAL COMPANIES DOMINATED THE PROTEIN ENGINEERING MARKET IN 2018

FIGURE 13 APAC TO WITNESS THE HIGHEST GROWTH IN THE PROTEIN ENGINEERING MARKET DURING THE FORECAST PERIOD

FIGURE 14 PROTEIN ENGINEERING MARKET: DRIVERS, RESTRAINTS, AND OPPORTUNITIES

FIGURE 15 PROTEIN ENGINEERING MARKET: GEOGRAPHIC GROWTH OPPORTUNITIES

FIGURE 16 NORTH AMERICA: PROTEIN ENGINEERING MARKET SNAPSHOT

FIGURE 17 ASIA PACIFIC: PROTEIN ENGINEERING MARKET SNAPSHOT

FIGURE 18 RANK OF COMPANIES IN THE PROTEIN ENGINEERING MARKET, 2018

FIGURE 19 VENDOR COMPARISON MATRIX: PROTEIN ENGINEERING MARKET (2018)

FIGURE 20 COMPANY SNAPSHOT: THERMO FISHER SCIENTIFIC, INC. (2018)

FIGURE 21 COMPANY SNAPSHOT: DANAHER CORPORATION (2018)

FIGURE 22 COMPANY SNAPSHOT: AGILENT TECHNOLOGIES, INC. (2019)

FIGURE 23 COMPANY SNAPSHOT: BIO-RAD LABORATORIES, INC. (2018)

FIGURE 24 COMPANY SNAPSHOT: BRUKER CORPORATION (2018)

FIGURE 25 COMPANY SNAPSHOT: GENSCRIPT BIOTECH CORPORATION (2018)

FIGURE 26 COMPANY SNAPSHOT: CODEXIS, INC. (2018)

FIGURE 27 COMPANY SNAPSHOT: WATERS CORPORATION (2018)

FIGURE 28 COMPANY SNAPSHOT: MERCK KGAA (2018)

FIGURE 29 COMPANY SNAPSHOT: PERKINELMER, INC. (2018)

FIGURE 30 COMPANY SNAPSHOT: GE HEALTHCARE (2018)

FIGURE 31 COMPANY SNAPSHOT: ABZENA, LTD. (2018)

FIGURE 32 COMPANY SNAPSHOT: TAKARA BIO, INC. (2019)

About

The report provides a detailed overview of major drivers, restraints, challenges, opportunities, current market trends and strategies impacting the global market along with estimates and forecast of revenue.

The global protein engineering market is poised to reach \$1,463.0 million by 2020 from \$610.3 million in 2014, at a CAGR of 15.7% from 2015 to 2020.

Key players operating in the Protein Engineering Market are Agilent Technologies (U.S.), AB-Sciex (U.S.), Bio-Rad Laboratories, Inc. (U.S.), Bruker Corp. (U.S.), GE Healthcare (U.K.), Perkin Elmer (U.S.), Sigma-Aldrich Corp. (U.S.), Thermo Fisher Scientific (U.S.), and Waters Corp. (U.S.).

Factor for Protein Engineering Market Growth:

Factors such as increase in adoption of protein drugs over non-protein drugs, high prevalence rate of lifestyle diseases, growth in funding for protein engineering, and reduction in overall timeline and cost for drug discovery are the major drivers of the protein engineering market. However, expensive and high maintenance tools and instruments used in protein engineering and dearth of trained personnel are hindering the market.

The protein engineering market is segmented on the basis of product, technology, protein type, end user, and region.

By product, the protein engineering market is categorized into instruments, reagents, and services and software. The instruments segment accounted for the largest share 41.4% of the global protein engineering market in 2014.

Based on protein type, the market is categorized into monoclonal antibodies, insulin, erythropoietin, interferon, colony stimulating factor, growth hormones, coagulation factor, vaccines and others (interleukins, follicle stimulating hormones, enzyme replacement). Monoclonal antibodies is the largest as well as fastest growing segment of the protein engineering protein type market. This growth is attributed to the increase in adoption of them for various therapies such as cancer and autoimmune diseases.

On the basis of geography, the protein engineering market is segmented into North America, Europe, Asia, and Rest of the World (RoW). North America is further segmented into U.S. and Canada. Asia is further segmented into China, Japan, India and Rest of Asia. In 2014, North America accounted for the largest share of the protein engineering market, followed by Europe. Both markets are estimated to register double-digit growth rates over the next five years.

I would like to order

Product name: Protein Engineering Market by Technology (Rational Design, Irrational Design), Product & Service (Instrument, Consumables), Protein Type (Monoclonal Antibodies, Insulin), End User (Academics Institutes, Biopharmaceuticals, CROs) - Global Forecast to 2024

Product link: <https://marketpublishers.com/r/PB44D1ECF62EN.html>

Price: US\$ 5,650.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/PB44D1ECF62EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970