

Protein Crystallization & Crystallography Market by Technology (NMR, X-Ray Crystallography), Product & Service (Instrument (Liquid Handling (Automated)), Consumable (Reagent, Microplate) End User, and Region - Global Forecast to 2025

<https://marketpublishers.com/r/PFE200D734FEN.html>

Date: June 2020

Pages: 148

Price: US\$ 4,950.00 (Single User License)

ID: PFE200D734FEN

Abstracts

“The increasing adoption of protein-based therapeutics is expected to drive the growth of the protein crystallization and crystallography market.”

The global protein crystallization and crystallography market is estimated to grow from USD 1.1 billion in 2020 to USD 1.7 billion by 2025, at a CAGR of 8.9% during the forecast period. The major factors driving the growth of this market include the increasing adoption of protein therapeutics, technological advancements in protein crystallization instruments and consumables, and the increasing focus on miniaturization.

“Consumables segment accounted for the largest share of the protein crystallization and crystallography market, by product and service, in 2019.”

Based on product and service, the protein crystallization and crystallography market is segmented into consumables, instruments, and software and services. In 2019, the consumables segment accounted for the largest share of the protein crystallization and crystallography market. This can be attributed to the large number of reagent kits and microplates used in proteomics research. The consumables segment is further divided into reagents kits/screens, microplates, crystal mounts and loops, and other consumables. In 2019, the microplates segment accounted for the largest share of the protein crystallization and crystallography consumables market.

“Cryo-electron microscopy segment to grow at the highest CAGR in the protein crystallization and crystallography market during the forecast period”

Based on technology, the protein crystallization and crystallography market is segmented into X-ray crystallography, NMR spectroscopy, cryo-electron microscopy, and small-angle X-ray scattering (SAXS). The cryo-electron microscopy segment is projected to register the highest CAGR in the forecast period. Cryo-electron microscopy is an emerging technology where protein samples are studied at cryogenic temperatures (the temperature of liquid nitrogen). As these studies are carried out at cryogenic temperatures, they offer various advantages such as reduced thermal vibrations and greater resilience to X-rays, allowing the crystal to survive for longer durations in X-ray beams.

“Pharmaceutical companies are the largest end users of protein crystallization and crystallography products.”

Based on end user, the protein crystallization and crystallography market is segmented into pharmaceutical companies, biotechnology companies, and research and government institutes. The pharmaceutical companies segment accounted for the largest share of the protein crystallization and crystallography market in 2019. This can be attributed to the increasing demand for protein-based drugs.

“The APAC market is expected to register the highest CAGR in the global protein crystallization and crystallography market during the forecast period”

The APAC market, particularly in China, Japan, and India, is expected to witness high growth in the coming five years. This growth will be driven by the emergence of a large number of research institutes, growing number of collaborations in China and India, and the rising demand for proteomics research in the region.

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

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

By Designation: C-level: 20%, D-level: 55%, and Others: 25%

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

The major players operating in the global protein crystallization and crystallography market include Rigaku Corporation (Japan), Hampton Research (US), Jena Bioscience GmbH (Germany), and Bruker Corporation (US).

Research Coverage:

The study covers the market across various segments. It aims at estimating the market size and the growth potential of this market across different segments (product and service, end user, technology, and region). 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 depth filtration 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
 - 1.2.1 INCLUSIONS & EXCLUSIONS
- 1.3 MARKET SCOPE
 - 1.3.1 MARKETS COVERED
 - 1.3.2 YEARS CONSIDERED FOR THE STUDY
- 1.4 CURRENCY
- 1.5 LIMITATIONS
- 1.6 STAKEHOLDERS
- 1.7 SUMMARY OF CHANGES

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
 - 2.1.1 SECONDARY DATA
 - 2.1.2 PRIMARY DATA
- 2.2 MARKET DATA ESTIMATION & TRIANGULATION
 - 2.2.1 DATA TRIANGULATION
 - 2.2.2 MARKET ESTIMATION METHODOLOGY
- 2.3 RESEARCH ASSUMPTIONS

3 EXECUTIVE SUMMARY

4 PREMIUM INSIGHTS

- 4.1 PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET OVERVIEW
- 4.2 ASIA PACIFIC: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET SHARE, BY END USER & COUNTRY (2019)
- 4.3 PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY PRODUCT & SERVICE (2020–2025)
- 4.4 PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY INSTRUMENTS MARKET SHARE, BY TYPE, 2020 VS. 2025
- 4.5 PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY TECHNOLOGY, 2020 VS. 2025 (USD MILLION)

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

5.2.1 MARKET DRIVERS

5.2.1.1 Increasing demand for protein therapeutics

5.2.1.2 Technological advancements

5.2.1.3 Increasing focus on miniaturization

5.2.2 RESTRAINTS

5.2.2.1 High cost of instruments

5.2.3 OPPORTUNITIES

5.2.3.1 Emerging markets

5.2.4 CHALLENGES

5.2.4.1 Dearth of skilled professionals

5.3 VALUE CHAIN ANALYSIS

5.3.1 RESEARCH

5.3.2 MANUFACTURING

5.3.3 MARKETING & SALES

5.4 TECHNOLOGY ANALYSIS

5.5 IMPACT OF THE COVID-19 OUTBREAK ON THE GROWTH OF THE PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET

6 PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY TECHNOLOGY

6.1 INTRODUCTION

6.2 X-RAY CRYSTALLOGRAPHY

6.2.1 NEED FOR HIGH-RESOLUTION INFORMATION ON PROTEIN STRUCTURES TO DRIVE MARKET GROWTH

6.3 NMR SPECTROSCOPY

6.3.1 NMR SPECTROSCOPY IS PREFERRED IN KINETIC AND DYNAMIC STUDIES

6.4 CRYO-ELECTRON MICROSCOPY

6.4.1 CRYO-ELECTRON MICROSCOPY SEGMENT TO WITNESS HIGH GROWTH IN THE PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET

6.5 SMALL-ANGLE X-RAY SCATTERING (SAXS)

6.5.1 SAXS OFFERS VERY HIGH-RESOLUTION DIFFRACTION IMAGES

7 PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY PRODUCT

& SERVICE

7.1 INTRODUCTION

7.2 CONSUMABLES

7.2.1 MICROPLATES

7.2.1.1 96-well plates

7.2.1.1.1 96-well plates are commonly used in automated liquid handling systems

7.2.1.2 48-well plates

7.2.1.2.1 48-well plates are used for hanging drop vapor diffusion crystallization

7.2.1.3 24-well plates

7.2.1.3.1 24-well plates are commonly used in manual liquid handling systems in small laboratories

7.2.1.4 Other microplates

7.2.2 CRYSTAL MOUNTS & LOOPS

7.2.2.1 Crystal mounts and loops avoid cross-contamination and prevent damage to crystals

7.2.3 OTHER CONSUMABLES

7.3 REAGENT KITS/SCREENS

7.3.1 REAGENT KITS IMPROVE THE SENSITIVITY OF PROTEIN STRUCTURES

7.4 INSTRUMENTS

7.4.1 LIQUID HANDLING INSTRUMENTS

7.4.1.1 Automated liquid handling instruments

7.4.1.1.1 Rising preference for automated instruments to support market growth

7.4.1.2 Manual liquid handling instruments

7.4.1.2.1 Manual liquid handling instruments are commonly used in small laboratories

7.4.2 CRYSTAL IMAGING INSTRUMENTS

7.4.2.1 Crystal imaging instruments can differentiate between crystals of protein and salt

7.4.3 OTHER INSTRUMENTS

7.5 SOFTWARE & SERVICES

7.5.1 PROTEIN CRYSTALLIZATION SOFTWARE HELPS IN STREAMLINING THE ENTIRE WORKFLOW IN AUTOMATED LIQUID HANDLING INSTRUMENTS

8 PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY END USER

8.1 INTRODUCTION

8.2 PHARMACEUTICAL COMPANIES

8.2.1 GROWING DEMAND FOR PROTEIN THERAPEUTICS TO DRIVE MARKET

GROWTH

8.3 RESEARCH & GOVERNMENT INSTITUTES

8.3.1 GROWING RESEARCH ACTIVITIES BETWEEN ACADEMIC RESEARCH INSTITUTES & PROTEIN DRUG MANUFACTURERS TO SUPPORT MARKET GROWTH

8.4 BIOTECHNOLOGY COMPANIES

8.4.1 INCREASING PRESSURE ON BIOTECHNOLOGY COMPANIES TO DEVELOP NOVEL RECOMBINANT PROTEIN-BASED DRUGS WILL SUPPORT MARKET GROWTH

9 PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY REGION

9.1 INTRODUCTION

9.2 NORTH AMERICA

9.2.1 US

9.2.1.1 Government funding for research related to proteins to drive market growth

9.2.2 CANADA

9.2.2.1 Increasing R&D activities in research institutes and universities to drive market growth

9.3 EUROPE

9.3.1 GERMANY

9.3.1.1 Germany is the largest market for protein crystallization & crystallography in Europe

9.3.2 UK

9.3.2.1 Increasing R&D investments to support market growth

9.3.3 FRANCE

9.3.3.1 Regulatory hurdles and inadequate skilled workforce are expected to restrain market growth in France

9.3.4 REST OF EUROPE

9.4 ASIA PACIFIC

9.4.1 CHINA

9.4.1.1 Increasing research studies in China to propel market growth

9.4.2 JAPAN

9.4.2.1 Initiatives taken by the Japanese government to support market growth in Japan

9.4.3 INDIA

9.4.3.1 Growing pharma and biotech industries to propel market growth in India

9.4.4 REST OF ASIA PACIFIC (ROAPAC)

9.5 LATIN AMERICA

9.5.1 INCREASING RESEARCH IN VARIOUS DISEASE AREAS WILL PROPEL MARKET GROWTH IN LATIN AMERICA

9.6 MIDDLE EAST & AFRICA

9.6.1 INFRASTRUCTURE DEVELOPMENTS ARE SUPPORTING THE GROWTH OF THE PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET IN THE REGION

10 COMPETITIVE LANDSCAPE

10.1 INTRODUCTION

10.2 MARKET RANKING ANALYSIS

10.3 MARKET EVALUATION FRAMEWORK

10.4 COMPETITIVE LEADERSHIP MAPPING

10.4.1 VISIONARY LEADERS

10.4.2 DYNAMIC DIFFERENTIATORS

10.4.3 INNOVATORS

10.4.4 EMERGING COMPANIES

10.5 COMPETITIVE SCENARIO

10.5.1 KEY PRODUCT LAUNCHES

10.5.2 KEY COLLABORATIONS

10.5.3 KEY ACQUISITIONS

10.5.4 KEY EXPANSIONS

11 COMPANY PROFILES

11.1 BRUKER CORPORATION

(Business Overview, Products Offered, Recent Developments, and MNM View)*

11.2 RIGAKU CORPORATION

11.3 HAMPTON RESEARCH

11.4 AGILENT TECHNOLOGIES

11.5 CORNING INCORPORATED

11.6 TECAN GROUP

11.7 SAROMICS BIOSTRUCTURES

11.8 SPECTRIS PLC

11.9 CHARLES RIVER LABORATORIES

11.10 THERMO FISCHER SCIENTIFIC

11.11 CREATIVE BIOSTRUCTURE

11.12 ANTON PAAR GMBH

11.13 JENA BIOSCIENCE GMBH

11.14 MITEGEN

11.15 CALIBRE SCIENTIFIC, INC.

11.16 ARINAX SCIENTIFIC INSTRUMENTATION

11.17 FORMULATRIX

11.18 HELIX BIOSTRUCTURES, LLC

11.19 GREINER BIO-ONE INTERNATIONAL

11.20 DOUGLAS INSTRUMENTS LIMITED

11.21 ART ROBBINS INSTRUMENTS

*Details on Business Overview, Products Offered, Recent Developments, and MNM View might not be captured in case of unlisted companies.

12 APPENDIX

12.1 DISCUSSION GUIDE

12.2 KNOWLEDGE STORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

12.3 AVAILABLE CUSTOMIZATIONS

12.4 RELATED REPORTS

12.5 AUTHOR DETAILS

List Of Tables

LIST OF TABLES

TABLE 1 PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY TECHNOLOGY, 2018–2025 (USD MILLION)

TABLE 2 X-RAY CRYSTALLOGRAPHY MARKET, BY REGION, 2018–2025 (USD MILLION)

TABLE 3 NORTH AMERICA: X-RAY CRYSTALLOGRAPHY MARKET, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 4 EUROPE: X-RAY CRYSTALLOGRAPHY MARKET, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 5 APAC: X-RAY CRYSTALLOGRAPHY MARKET, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 6 NMR SPECTROSCOPY MARKET, BY REGION, 2018–2025 (USD MILLION)

TABLE 7 NORTH AMERICA: NMR SPECTROSCOPY MARKET, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 8 EUROPE: NMR SPECTROSCOPY MARKET, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 9 APAC: NMR SPECTROSCOPY MARKET, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 10 CRYO-ELECTRON MICROSCOPY MARKET, BY REGION, 2018–2025 (USD MILLION)

TABLE 11 NORTH AMERICA: CRYO-ELECTRON MICROSCOPY MARKET, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 12 EUROPE: CRYO-ELECTRON MICROSCOPY MARKET, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 13 APAC: CRYO-ELECTRON MICROSCOPY MARKET, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 14 SMALL-ANGLE X-RAY SCATTERING MARKET, BY REGION, 2018–2025 (USD MILLION)

TABLE 15 NORTH AMERICA: SMALL-ANGLE X-RAY SCATTERING MARKET, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 16 EUROPE: SMALL-ANGLE X-RAY SCATTERING MARKET, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 17 APAC: SMALL-ANGLE X-RAY SCATTERING MARKET, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 18 PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY PRODUCT & SERVICE, 2018–2025 (USD MILLION)

TABLE 19 PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY CONSUMABLES MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 20 PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY CONSUMABLES MARKET, BY REGION, 2018–2025 (USD MILLION)

TABLE 21 MICROPLATES MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 22 MICROPLATES MARKET, BY REGION, 2018–2025 (USD MILLION)

TABLE 23 96-WELL PLATES MARKET, BY REGION, 2018–2025 (USD MILLION)

TABLE 24 48-WELL PLATES MARKET, BY REGION, 2018–2025 (USD MILLION)

TABLE 25 24-WELL PLATES MARKET, BY REGION, 2018–2025 (USD MILLION)

TABLE 26 OTHER MICROPLATES MARKET, BY REGION, 2018–2025 (USD MILLION)

TABLE 27 CRYSTAL MOUNTS & LOOPS MARKET, BY REGION, 2018–2025 (USD MILLION)

TABLE 28 OTHER CONSUMABLES MARKET, BY REGION, 2018–2025 (USD MILLION)

TABLE 29 REAGENTS KITS/SCREENS MARKET, BY REGION, 2018–2025 (USD MILLION)

TABLE 30 PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY INSTRUMENTS MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 31 PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY INSTRUMENTS MARKET, BY TYPE, 2018–2025 (THOUSAND UNITS)

TABLE 32 PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY INSTRUMENTS MARKET, BY REGION, 2018–2025 (USD MILLION)

TABLE 33 LIQUID HANDLING INSTRUMENTS MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 34 LIQUID HANDLING INSTRUMENTS MARKET, BY REGION, 2018–2025 (USD MILLION)

TABLE 35 AUTOMATED LIQUID HANDLING INSTRUMENTS MARKET, BY REGION, 2018–2025 (USD MILLION)

TABLE 36 MANUAL LIQUID HANDLING INSTRUMENTS MARKET, BY REGION, 2018–2025 (USD MILLION)

TABLE 37 CRYSTAL IMAGING INSTRUMENTS MARKET, BY REGION, 2018–2025 (USD MILLION)

TABLE 38 OTHER INSTRUMENTS MARKET, BY REGION, 2018–2025 (USD MILLION)

TABLE 39 PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY SOFTWARE & SERVICES MARKET, BY REGION, 2018–2025 (USD MILLION)

TABLE 40 PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY END USER, 2018–2025 (USD MILLION)

TABLE 41 PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET FOR PHARMACEUTICAL COMPANIES, BY REGION, 2018–2025 (USD MILLION)

TABLE 42 NORTH AMERICA: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET FOR PHARMACEUTICAL COMPANIES, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 43 EUROPE: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET FOR PHARMACEUTICAL COMPANIES, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 44 APAC: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET FOR PHARMACEUTICAL COMPANIES, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 45 PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET FOR RESEARCH & GOVERNMENT INSTITUTES, BY REGION, 2018–2025 (USD MILLION)

TABLE 46 NORTH AMERICA: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET FOR RESEARCH & GOVERNMENT INSTITUTES, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 47 EUROPE: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET FOR RESEARCH & GOVERNMENT INSTITUTES, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 48 APAC: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET FOR RESEARCH & GOVERNMENT INSTITUTES, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 49 PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET FOR BIOTECHNOLOGY COMPANIES, BY REGION, 2018–2025 (USD MILLION)

TABLE 50 NORTH AMERICA: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET FOR BIOTECHNOLOGY COMPANIES, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 51 EUROPE: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET FOR BIOTECHNOLOGY COMPANIES, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 52 APAC: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET FOR BIOTECHNOLOGY COMPANIES, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 53 PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY REGION, 2018–2025 (USD MILLION)

TABLE 54 NORTH AMERICA: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 55 NORTH AMERICA: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY TECHNOLOGY, 2018–2025 (USD MILLION)

TABLE 56 NORTH AMERICA: PROTEIN CRYSTALLIZATION &

CRYSTALLOGRAPHY MARKET, BY END USER, 2018–2025 (USD MILLION)

TABLE 57 NORTH AMERICA: PROTEIN CRYSTALLIZATION &

CRYSTALLOGRAPHY MARKET, BY PRODUCT & SERVICE, 2018–2025 (USD MILLION)

TABLE 58 NORTH AMERICA: PROTEIN CRYSTALLIZATION &

CRYSTALLOGRAPHY INSTRUMENTS MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 59 NORTH AMERICA: LIQUID HANDLING INSTRUMENTS MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 60 NORTH AMERICA: PROTEIN CRYSTALLIZATION &

CRYSTALLOGRAPHY CONSUMABLES MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 61 NORTH AMERICA: MICROPLATES MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 62 US: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY TECHNOLOGY, 2018–2025 (USD MILLION)

TABLE 63 US: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY END USER, 2018–2025 (USD MILLION)

TABLE 64 US: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY PRODUCT & SERVICE, 2018–2025 (USD MILLION)

TABLE 65 US: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY INSTRUMENTS MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 66 US: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY CONSUMABLES MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 67 CANADA: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY TECHNOLOGY, 2018–2025 (USD MILLION)

TABLE 68 CANADA: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY END USER, 2018–2025 (USD MILLION)

TABLE 69 CANADA: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY PRODUCT & SERVICE, 2018–2025 (USD MILLION)

TABLE 70 CANADA: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY INSTRUMENTS MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 71 CANADA: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY CONSUMABLES MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 72 EUROPE: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 73 EUROPE: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY TECHNOLOGY, 2018–2025 (USD MILLION)

TABLE 74 EUROPE: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY

MARKET, BY END USER, 2018–2025 (USD MILLION)

TABLE 75 EUROPE: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY

MARKET, BY PRODUCT & SERVICE, 2018–2025 (USD MILLION)

TABLE 76 EUROPE: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY

INSTRUMENTS MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 77 EUROPE: LIQUID HANDLING INSTRUMENTS MARKET, BY TYPE,
2018–2025 (USD MILLION)

TABLE 78 EUROPE: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY
CONSUMABLES MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 79 EUROPE: MICROPLATES MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 80 GERMANY: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY
MARKET, BY TECHNOLOGY, 2018–2025 (USD MILLION)

TABLE 81 GERMANY: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY
MARKET, BY END USER, 2018–2025 (USD MILLION)

TABLE 82 GERMANY: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY
MARKET, BY PRODUCT & SERVICE, 2018–2025 (USD MILLION)

TABLE 83 GERMANY: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY
INSTRUMENTS MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 84 GERMANY: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY
CONSUMABLES MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 85 UK: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY
TECHNOLOGY, 2018–2025 (USD MILLION)

TABLE 86 UK: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY
END USER, 2018–2025 (USD MILLION)

TABLE 87 UK: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY
PRODUCT & SERVICE, 2018–2025 (USD MILLION)

TABLE 88 UK: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY
INSTRUMENTS MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 89 UK: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY
CONSUMABLES MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 90 FRANCE: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY
MARKET, BY TECHNOLOGY, 2018–2025 (USD MILLION)

TABLE 91 FRANCE: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY
MARKET, BY END USER, 2018–2025 (USD MILLION)

TABLE 92 FRANCE: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY
MARKET, BY PRODUCT & SERVICE, 2018–2025 (USD MILLION)

TABLE 93 FRANCE: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY
INSTRUMENTS MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 94 FRANCE: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY

CONSUMABLES MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 95 ROE: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY TECHNOLOGY, 2018–2025 (USD MILLION)

TABLE 96 ROE: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY END USER, 2018–2025 (USD MILLION)

TABLE 97 ROE: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY PRODUCT & SERVICE, 2018–2025 (USD MILLION)

TABLE 98 ROE: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY INSTRUMENTS MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 99 ROE: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY CONSUMABLES MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 100 APAC: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 101 APAC: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY TECHNOLOGY, 2018–2025 (USD MILLION)

TABLE 102 APAC: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY END USER, 2018–2025 (USD MILLION)

TABLE 103 APAC: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY PRODUCT & SERVICE, 2018–2025 (USD MILLION)

TABLE 104 APAC: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY INSTRUMENTS MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 105 APAC: LIQUID HANDLING INSTRUMENTS MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 106 APAC: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY CONSUMABLES MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 107 APAC: MICROPLATES MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 108 CHINA: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY TECHNOLOGY, 2018–2025 (USD MILLION)

TABLE 109 CHINA: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY END USER, 2018–2025 (USD MILLION)

TABLE 110 CHINA: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY PRODUCT & SERVICE, 2018–2025 (USD MILLION)

TABLE 111 CHINA: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY INSTRUMENTS MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 112 CHINA: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY CONSUMABLES MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 113 JAPAN: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY TECHNOLOGY, 2018–2025 (USD MILLION)

TABLE 114 JAPAN: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY

MARKET, BY END USER, 2018–2025 (USD MILLION)

TABLE 115 JAPAN: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY

MARKET, BY PRODUCT & SERVICE, 2018–2025 (USD MILLION)

TABLE 116 JAPAN: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY

INSTRUMENTS MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 117 JAPAN: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY

CONSUMABLES MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 118 INDIA: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET,
BY TECHNOLOGY, 2018–2025 (USD MILLION)

TABLE 119 INDIA: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET,
BY END USER, 2018–2025 (USD MILLION)

TABLE 120 INDIA: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET,
BY PRODUCT & SERVICE, 2018–2025 (USD MILLION)

TABLE 121 INDIA: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY
INSTRUMENTS MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 122 INDIA: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY
CONSUMABLES MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 123 ROAPAC: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY
MARKET, BY TECHNOLOGY, 2018–2025 (USD MILLION)

TABLE 124 ROAPAC: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY
MARKET, BY END USER, 2018–2025 (USD MILLION)

TABLE 125 ROAPAC: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY
MARKET, BY PRODUCT & SERVICE, 2018–2025 (USD MILLION)

TABLE 126 ROAPAC: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY
INSTRUMENTS MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 127 ROAPAC: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY
CONSUMABLES MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 128 LATIN AMERICA: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY
MARKET, BY TECHNOLOGY, 2018–2025 (USD MILLION)

TABLE 129 LATIN AMERICA: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY
MARKET, BY END USER, 2018–2025 (USD MILLION)

TABLE 130 LATIN AMERICA: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY
MARKET, BY PRODUCT & SERVICE, 2018–2025 (USD MILLION)

TABLE 131 LATIN AMERICA: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY
INSTRUMENTS MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 132 LATIN AMERICA: LIQUID HANDLING INSTRUMENTS MARKET, BY
TYPE, 2018–2025 (USD MILLION)

TABLE 133 LATIN AMERICA: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY
CONSUMABLES MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 134 LATIN AMERICA: MICROPLATES MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 135 MIDDLE EAST & AFRICA: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY TECHNOLOGY, 2018–2025 (USD MILLION)

TABLE 136 MIDDLE EAST & AFRICA: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY END USER, 2018–2025 (USD MILLION)

TABLE 137 MIDDLE EAST & AFRICA: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY MARKET, BY PRODUCT & SERVICE, 2018–2025 (USD MILLION)

TABLE 138 MIDDLE EAST & AFRICA: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY INSTRUMENTS MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 139 MIDDLE EAST & AFRICA: LIQUID HANDLING INSTRUMENTS MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 140 MIDDLE EAST & AFRICA: PROTEIN CRYSTALLIZATION & CRYSTALLOGRAPHY CONSUMABLES MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 141 MIDDLE EAST & AFRICA: MICROPLATES MARKET, BY TYPE, 2018–2025 (USD MILLION)

TABLE 142 MARKET EVALUATION FRAMEWORK: PRODUCT LAUNCH WAS THE MAJOR STRATEGY ADOPTED BY MAJOR PLAYERS IN 2017

About

The protein crystallization and crystallography market studied in this report has been segmented by technology, product (instruments and reagents), end user, and geography. Based on the technology used, the protein crystallization and crystallography market is further segmented into protein purification, protein crystallization, protein crystal mounting, and protein crystallography, of which protein crystallization accounted for the largest share of XX% in 2013.

Based on product, the protein crystallization and crystallography market has three segments, namely, instruments, reagents and consumables, and services and software, of which reagents and consumables was the major segment with a XX% share of the protein crystallization and crystallography market in 2013. This segment is also the fastest-growing segment owing to the increasing usage of reagents and consumables in protein crystallization and crystallography studies.

On the basis of end users, the protein crystallization and crystallography market is segmented into pharmaceutical companies, biotechnology companies, government agencies, and academic institutions. Pharmaceutical companies form the largest market and accounted for a XX% share of the protein crystallization and crystallography market in 2013. The protein crystallization and crystallography market is further segmented by regions, such as North America, Europe, Asia, and RoW (LATAM, Africa, the Middle East, and Pacific countries).

The global protein crystallization and crystallography market is a lucrative market that presents an array of opportunities for its stakeholders. This market is propelled by increasing research and development in the pharmaceutical and biotechnological arenas, ongoing technological advancements, and availability of funding. However, a few pivotal factors hindering the growth of this market are the lack of qualified researchers, reductions in R&D budgets, and the highly time-consuming and expensive nature of the process.

The life sciences industry is a constantly evolving industry that thrives on innovation. Owing to this, the expenditure on R&D activities is high. The protein crystallization and crystallography market is expected to benefit from this increased spending on R&D in the life sciences industry. According to Battelle (a non-profit research and development organization) and R&D Magazine, the global life sciences R&D spending is estimated to grow by XX% to reach \$XX trillion by 2014. The global biopharmaceutical sector

accounted for XX% of all R&D expenditures in the life science industry in 2013. Many of the big pharmaceutical companies such as Roche (Switzerland), Merck (U.S.), and Pfizer (U.S.) account for a major portion of the biopharmaceutical sector's revenue in R&D expenditure. In 2012, Roche, Merck, and Pfizer spent XX%, XX%, and XX% of their total revenue in R&D, respectively.

I would like to order

Product name: Protein Crystallization & Crystallography Market by Technology (NMR, X-Ray Crystallography), Product & Service (Instrument (Liquid Handling (Automated)), Consumable (Reagent, Microplate) End User, and Region - Global Forecast to 2025

Product link: <https://marketpublishers.com/r/PFE200D734FEN.html>

Price: US\$ 4,950.00 (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/PFE200D734FEN.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